

## DOCUMENT RESUME

ED 145 864

IR 005 347

AUTHOR Noback, Richardson K.; Byrd, Gary D.  
TITLE Developing Clinical Information Needs and Systems.  
Final Grant Report.  
INSTITUTION Missouri Univ., Columbia. School of Medicine.  
SPONS AGENCY National Library of Medicine (DHEW), Bethesda, Md.  
PUB DATE 77  
GRANT 540008-1  
NOTE 169p.; Page 53, 54, 55 are marginally legible due to  
print quality

EDRS PRICE MF-\$0.83 HC-\$8.69 Plus Postage.  
DESCRIPTORS Data Analysis; Data Bases; Data Collection;  
\*Experimental Programs; \*Information Needs;  
\*Information Services; \*Information Sources;  
Information Systems; Medical Record Librarians;  
\*Medical Research; Summative Evaluation; Surveys;  
Tables (Data)

IDENTIFIERS \*Clinical Information; \*Clinical Medical  
Librarians

## ABSTRACT

This report represents the extended research following an initial three-year grant reported on in 1975. Goals were: (1) to enact, observe, and assess the results of a program in which medical librarians become integral members of multi-disciplinary patient care and educational teams; and (2) to test the ability of these Clinical Medical Librarians (CMLs) to search, select, and provide information. Research revealed four major findings: (1) CMLs identify and state the information needs of their users with an accuracy of 91.1 per cent; (2) 75.8 per cent correlation exists between the judgment of the CML and that of the user as to the pertinence of the information selected by the CML; (3) a limited number of journals produce most of the documents pertinent to the users' information needs; and (4) a Clinical Document Citation File developed by CMLs has been used in two hospitals. Data tables and figures are included within the report. The extensive appendices include a summary of data collection and analysis, evaluation comments, and journal frequency list--overall, by users, by subject areas, and by disciplines. (Author/KP)

\*\*\*\*\*  
\* Documents acquired by ERIC include many informal unpublished \*  
\* materials not available from other sources. ERIC makes every effort \*  
\* to obtain the best copy available. Nevertheless, items of marginal \*  
\* reproducibility are often encountered and this affects the quality \*  
\* of the microfiche and hardcopy reproductions ERIC makes available \*  
\* via the ERIC Document Reproduction Service (EDRS). EDRS is not \*  
\* responsible for the quality of the original document. Reproductions \*  
\* supplied by EDRS are the best that can be made from the original. \*  
\*\*\*\*\*

ED145864

Final Grant Report  
National Library of Medicine

Research Grant 540008-1

Developing Clinical Information Needs and System

September 1, 1975 - August 31, 1976

Principal Investigator

U.S. DEPARTMENT OF HEALTH,  
EDUCATION & WELFARE  
NATIONAL INSTITUTE OF  
EDUCATION

THIS DOCUMENT HAS BEEN REPRODUCED EXACTLY AS RECEIVED FROM THE PERSON OR ORGANIZATION ORIGINATING IT. POINTS OF VIEW OR OPINIONS STATED DO NOT NECESSARILY REPRESENT OFFICIAL NATIONAL INSTITUTE OF EDUCATION POSITION OR POLICY.

Richardson K. Noback, M.D.

School of Medicine

University of Missouri - Kansas City

2411 Holmes

Kansas City, Missouri

Project Director

Gary D. Byrd, M.A.L.S.

University of Missouri - Kansas City

Medical Library

2411 Holmes

Kansas City, Missouri

"PERMISSION TO REPRODUCE THIS  
MATERIAL HAS BEEN GRANTED BY

Gary D. Byrd

TO THE EDUCATIONAL RESOURCES  
INFORMATION CENTER (ERIC) AND  
USERS OF THE ERIC SYSTEM "

IR005347

#### ACKNOWLEDGEMENTS

A major portion of the prose and statistical computations for this report were drafted by our Senior Clinical Medical Librarian, Carolyn Anne Reid. Help in editing and revising the report was also received from Gretchen Claman, Toby Steinberger, and Claude Trottier.

## TABLE OF CONTENTS

|                                                           |    |
|-----------------------------------------------------------|----|
| I. Introduction -----                                     | 1  |
| II. Staff Changes During the Grant Extension Period ----- | 5  |
| III. Overview and Framework -----                         | 6  |
| IV. The Hypotheses Tested -----                           | 10 |
| V. Results -----                                          | 13 |
| VI. New Directions -----                                  | 23 |
| Tables -----                                              | 31 |
| Figures -----                                             | 44 |
| Appendices -----                                          | 50 |
| List of Tables, Figures, and Appendices -----             | ii |



## TABLES

|    |                                                                                                                                              |         |
|----|----------------------------------------------------------------------------------------------------------------------------------------------|---------|
| A. | Types of Transactions Conducted by the Clinical Medical Librarians                                                                           | -----31 |
| B. | Number of Transactions Per Clinical Medical Librarian Per Month                                                                              | -----32 |
| C. | Types of Information Needs Identified by the Clinical Medical Librarians                                                                     | -----33 |
| D. | Comparison of the Index of Efficiency for the Two Grant Periods                                                                              | -----34 |
| E. | Comparison of the Index of Efficiency for Experienced and Inexperienced Clinical Medical Librarians                                          | -----35 |
| F. | Comparison of Return of Evaluation Forms                                                                                                     | -----36 |
| G. | Comparison of Evaluation Forms Returned by the Four User Groups                                                                              | -----37 |
| H. | Responses to the Question, "To What Degree of Completeness Do/Does the Attached Documents Answer the Question(s) You Had About the Subject?" | -----38 |
| I. | Source Journals from Zone I on the Four User Category Lists                                                                                  | -----39 |
| J. | Source Journals from Zone I on the Eight Subject Lists                                                                                       | -----40 |
| K. | Source Journals from Zone I on the Five Discipline Lists                                                                                     | -----41 |
| L. | Repeat Use of Documents Given by Clinical Medical Librarians                                                                                 | -----42 |
| M. | Frequency of Use of CDCF/DOCLINE Citations                                                                                                   | -----43 |

## FIGURES

1. Graph Showing Increasing Repeat Use of Documents -----44
2. CDCF/DOCLINE Searches Done by Clinical Medical Librarians -----45
3. Patient Care Information System Info Systats Form #1 -----46
4. UMKC Medical Library User Evaluation Form -----47
5. UMKC Medical Library Information Consult Form -----48
6. CML Search Request Form -----49

## APPENDICES

|    |                                                                |         |
|----|----------------------------------------------------------------|---------|
| A. | Data Collection and Analysis -----                             | 50-54   |
| B. | Comments from the Evaluation Form                              |         |
|    | Comments Made by Users on the -----                            | 55      |
|    | Accuracy of the CMLs' Statements<br>of Their Information Needs |         |
|    | General Comments from the End -----                            | 56      |
|    | of the Evaluation Form                                         |         |
| C. | Overall Journal Frequency List -----                           | 60-70   |
| D. | Journal Frequency List by User Groups                          |         |
|    | Physicians -----                                               | 71-78   |
|    | Medical Students -----                                         | 79-85   |
|    | Other Patient Care Team Members -----                          | 86-89   |
|    | Team-Unit -----                                                | 90-93   |
| E. | Journal Frequency Lists by Broad Subject Areas                 |         |
|    | Cardiovascular Diseases -----                                  | 94-97   |
|    | Digestive System Diseases -----                                | 98-100  |
|    | Obstetrics and Gynecology -----                                | 101-105 |
|    | Pediatrics -----                                               | 106-109 |
|    | Diagnosis -----                                                | 110-114 |
|    | Drug Therapy -----                                             | 115-119 |
|    | Surgery -----                                                  | 120-123 |
|    | General Therapeutics -----                                     | 124-128 |
| F. | Journal Frequency Lists for Discipline Areas                   |         |
|    | Internal Medicine -----                                        | 129-134 |
|    | Family Practice -----                                          | 135-138 |
|    | Pediatrics -----                                               | 139-142 |
|    | Surgery -----                                                  | 143-146 |
|    | Obstetrics and Gynecology -----                                | 147-150 |
| G. | Most Frequently Used DOCLINE Citations -----                   | 151-153 |
| H. | Statistical Package for Social Sciences -----                  | 154-165 |
|    | (SPSS) Coding Format                                           |         |

## I. Introduction

This report summarizes the goals and results of the year 04 activities supported by the National Library of Medicine Research Grant, No. 54-0008-1, "Developing Clinical Information Needs and System."

The first three years were funded for an initial research grant. We reported the results of the activity of those three years in 1975.\* A second Application requested funds to extend work on a number of activities which appeared particularly promising based on the initial three years of research. The second Application led to an extension of funding of the initial grant for a fourth year.

The goals of these four years of research activities are in two major categories. The first goal was to put in place, observe the characteristics of, and assess the results of a new program in which medical librarians become integral members of multi-disciplinary patient care and educational teams as these teams are responsible for the continuing care of patients in a major urban teaching hospital. The second goal was to test a number of specific hypotheses about the ability of these Clinical Medical Librarians (CMLs) to search, select, and provide both citations and literature to meet the information needs of members of these multi-disciplinary patient care and educational teams.

---

\* Richardson K. Noback and Virginia L. Algermissen, "Biomedical Librarians in Patient Care Setting", Final Report, Research Grant NLMO 1574, May 1, 1972 - April 30, 1975.

Those who are most concerned with patient care and with the education of health care professionals recognize the importance of knowing which aspects of a program make a contribution to the development of the learner, or to the results of the patient care process. A steadily growing body of literature and a steadily increasing emphasis through new programs required by federal legislation testify to the importance assigned to estimates of the quality and effectiveness of patient care by the general public, third party payors, and branches of government.

This increased interest leads to programs of quality assessment, attempts at quality assurance, and the development of Professional Service Review Organizations throughout the United States. While there is a large amount of interest, the state-of-the-art has not yet progressed to the point where there are general agreements about the means and the criteria by which the patient care process may be assessed. There is even less development of the means and the criteria by which the outcome of patient care may be assessed. Dr. Robert Brook, et al., review this situation in "Quality Assurance Today and Tomorrow: Forecast for the Future," published in the Annals of Internal Medicine in December, 1976.

Much the same situation pertains to the process and outcome of medical school education. The result of primary importance is the type of care which the student will provide many years after graduation. That result is a consequence of

heredity, environment, family and cultural attitudes, education and experience before medical school, experience in medical school, experience in formal residency programs during a number of years which commonly equals or exceeds those in medical school, and then the experience of early practice years.

Since so many variables complicate the measurement of "quality patient care" and the outcome of medical school experiences, we have been forced to select criteria other than such interesting ones as the effect of the introduction of Clinical Medical Librarians on what and how students learn or how health care personnel practice. These are issues of key importance, yet there are not now the means by which to make judgments on these issues during the period of a single grant. Therefore, we have deliberately directed the activity supported by this Grant at the two goals described previously.

Funding by the National Library of Medicine for a fourth year has made possible several activities. First, the experience of the CMLs on a general medical service was continued for an additional year in order to extend observations on the types of services they provide and the assessment of those services so that we could observe and assess the usefulness of the CMLs there, as well as see the extent to which citations and journals of use to a general medical service are, or are not, useful on other clinical services. Third, these increased activities provide additional data about the characteristics of



the literature needed by health practitioners and students. Together these observations and data provide the means to test several hypothesis which appear significant in attempts to formulate approaches to the establishment of specifications of literature collections which can meet a high proportion of the information needs in practice and education settings.

The basic concept of adding a new professional to the continuing activities of multi-disciplinary patient care and educational teams has been an unqualified success. The Clinical Medical Librarians have become valued and productive members of these teams. Team members appreciate the importance of having a wide variety of print and non-print citations and items made available very quickly. The members of the teams value the increased information about the structure and use of the supporting literature. The Clinical Medical Librarians are welcomed, and treated as important members of the teams.

Health professionals throughout the several institutions which are involved in the programs of the Health Sciences here understand fully the role and contributions of the Clinical Medical Librarians. There has been a demand for CMLs from clinical departments other than those in which they work. With support made available for the fourth year of the National Library of Medicine Grant as well as funds from a Robert Wood Johnson Foundation Grant, additional Clinical Medical Librarians have been introduced into new settings. The patient care teams with which they work have accepted the services and expertise



of these CMLs readily. They have contributed to the continued testing of the several hypotheses which are central to this four year project.

The second set of goals mentioned previously takes the form of a series of testable hypotheses. These hypotheses deal with the performance of the Clinical Medical Librarians in the process of patient care and education. The following sections of this report summarize the evidence which we have obtained to test these hypotheses, and then our conclusions about these hypotheses.

## II. Staff Changes During the Grant Extension Period

During the fourth year of the Grant (September 1975 - August 1976), CML services were extended to two new disciplines and two additional hospitals to serve the information needs of a larger variety of users. The data show that the hypotheses postulated during the First Grant Period continue to be supported.

The new areas served by the CMLs during the fourth year include the following. Those marked with an asterisk were funded by a grant from the Robert Wood Johnson Foundation. All data from all CMLs are included in this report.

- 1) Surgery Department - Truman Medical Center
- 2) Obstetrics/Gynecology Department - Truman Medical Center
- \* 3) Children's Mercy Hospital
- \* 4) Truman Medical Center - East (formerly known as the Jackson County Public Hospital)

These, plus the four Docent Team CMLs operating in the Internal Medicine Department of Truman Medical Center, and the School of Medicine make a total of eight CMLs serving the information needs of students and a variety of health practitioners in a fairly diverse group of patient care settings.

Also during the fourth year the former Project Director left the Medical Library. We were fortunate to fill this position with Gary D. Byrd who has served as Project Director through the last months of the research and reporting.

### III. Overview and Framework

Before the Second Grant Period began, the senior CMLs reviewed and revised the data collection forms. We changed the Info Systats Form #1, the Evaluation Form, the CML Search Request Form (See Figures 3, 4, and 6), and the computer coding format (See Appendix H). A detailed description of these changes appears in Appendix A. The CMLs and support staff collected statistics for the Second Grant Period on these forms during a seven-month period from October 1975 to April 1976. During this period, eight CMLs, each a full-time member of a patient care team, recorded a total of 2,390 information "transactions."

The CMLs continued to operate within a framework similar to that of the First Grant Period. Transactions were of three types.

- 1) those producing documents, which the CML delivered to other members of the patient care team;

- 2) those in which the CML gave the user a bibliography of pertinent articles, but no documents; and
- 3) those searches from which the CML could locate no pertinent information, indicating a probable lack of published data on that subject.

Of the 2,390 transactions, 1,493 (62.4% of the total) yielded 3,161 documents for an average of 2.12 documents per transaction. Another 696 transactions (29.1% of the total) yielded bibliographies. One hundred fifty-one (6.3%) yielded monographs or audio-visual resources. Only 50 (2.1%) produced no citations. Table A compares these statistics with those from the First Grant Period.

It is interesting to note that the average number of documents retrieved in those transactions that produced documents, decreased from 2.42 in the first period to 2.12 in the second period. The average number of transactions per month per CML increased from 26.7 to 42.7, (See Table B). The percentage of transactions where the CMLs supplied bibliographies to their users increased from 17.8% to 29.1%. Conversely, the occurrence of unproductive searches decreased from 3.6% to 2.1%.

We believe that each of these trends reflects both the increased use of CML services and a general improvement in communication between the CMLs and the team members they served. The smaller number of documents retrieved per transaction, and the smaller number of unproductive searches during the

Second Grant Period indicate that the CMLs were improving their ability to define precisely the information needs of the team members and to locate that information. The larger number of transactions indicates the growing demand for CML services.

Another way of comparing the overall trends in CML services between the two grant periods is to look at the four types of information needs identified by the CMLs.

- 1) requested - topics on which the user directly requested that the CML locate specified information;
- 2) anticipated - subjects for which the CML anticipated that information would be needed although no actual request was made;
- 3) user selection - topics where another team member already knew of relevant documents and mentioned them to the group without the aid of the CML; and
- 4) educational/non-patient care - information located primarily for the education of team members rather than for directly improving patient care. The latter is presumably an eventual result of the transaction.

A breakdown of transactions by type of information need during each of the two grant periods appears in Table C. The percentage of transactions reflecting documents selected by the users or for educational purposes increased slightly. We believe this shows an increasing demand for CML services by patient care team members. The presence of a CML on the

team helps to stimulate these health professionals and students to explore the literature and further their own education.

The proportion of requested versus anticipated transactions increased during the Second Grant Period. This may be attributed to a combination of two factors. First, as team members become accustomed to the presence of the CML and the types of service offered, they are less hesitant to ask for information. The second contributing factor is that five of the eight CMLs working during the Second Grant Period were relatively inexperienced. We have noted that as a CML gains experience and understanding of the information needs of the team, anticipation of information needs becomes more feasible and effective.

The relatively high percentage of inexperienced CMLs during this Second Grant Period is significant. A more detailed comparison of the statistics for the experienced CMLs and the inexperienced CMLs substantiates this conclusion. Three of the eight CMLs gained extensive working experience from the First Grant Period. We expected them to show this experience primarily in two areas: the completeness with which selected documents answered the users' questions; and the average number of documents chosen per transaction. By comparing the total responses to the question on completeness from the evaluation form (See Figure 4, Question No. 3: "To what degree of completeness does/do the attached document(s) answer the question(s) you had about the subject?") with the average number of documents given per transaction,

we developed the following formula:

$$I = \frac{V + Q}{D}$$

where I = Index of Efficiency

V = Percent of "very complete" responses to the completeness question

Q = Percent of "quite complete" responses to the completeness question

D = Average number of documents per transaction

One "perfect score" would be an overall Index of 100: total completeness in one document ( $I = 100/1 = 100$ ). This situation happens when the CML locates one document that completely satisfies the user's information need. Conversely the lowest figure we could expect would be zero, that is when the CML retrieves six documents (the maximum number recorded in one transaction) contributing nothing to the user's information need ( $I = 0/6 = 0$ ).

The overall Index for the CMLs during the First and Second Grant Periods is compared in Table D. As expected, overall efficiency improved considerably with experience. The comparisons of the experienced and inexperienced CMLs are interesting (See Table E). The three experienced CMLs have a higher Index of Efficiency than all but one of the inexperienced CMLs. The overall Index for experienced CMLs is higher.

#### IV. The Hypotheses Tested

During the Second Grant Period we continued to examine



the four hypotheses tested during the First Grant Period. They are listed below.

Hypothesis I. The Clinical Medical Librarian can identify user information needs with 90% or greater accuracy.

Hypothesis II. A high degree of correlation exists between the judgment of the Clinical Medical Librarian and that of the user as to the pertinence of the document(s) retrieved to fulfill the user's information need.

Hypothesis III. There is a limited number of journals which produce most of the documents pertinent to the user's information needs.

A. Pertinent documents appear in a different set of journals for each category of user.

B. Pertinent documents appear in a different set of journals for each category of information need.

With the expansion to additional specialities another extension is added to Hypothesis III:

C. Pertinent documents appear in a different set of journals for each clinical specialty or discipline.

Hypothesis IV. The Clinical Medical Librarian can develop a Clinical Document Citation File which fulfills information needs in comparable settings.

A. Using the Clinical Document Citation File and MEDLINE is more efficient than using MEDLINE alone in response to each information need.

The CMLs tested these hypotheses using two separate

devices: user evaluations and source document distribution statistics. In order to test Hypotheses I and II, users evaluated the packages of documents judged by the CML to be pertinent to their information need. In order to keep the statistics as comparable as possible, we chose not to evaluate the packages that consisted entirely of a bibliography, when no documents were given, or consisted of only textbook or audio-visual materials. There were two two-month evaluation periods during which CMLs attached the revised evaluation form (See Figure 4) to a total of 520 packages of information. Of these, 202 (38.8%) were returned and analyzed. Table F compares these figures for the First and Second Grant Periods. Although the percentage of evaluation forms returned during the Second Grant Period is lower than the First, the breakdown by type of user responding shows a similar distribution for both Periods (See Table G).

To test Hypotheses III, and its corollaries, we evaluated data on the source journals for the 3,161 articles retrieved during the experimental period. The documents came from a total of 410 journals. A computer program arranged these journal titles into lists by ranking them in order of decreasing frequency of yield of articles. We then divided each list into three Bradford Zones as Brookes\* suggests:

If a large collection of papers is ranked in order of decreasing productivity of papers

---

\*B.C. Brookes, "The Derivation and Application of the Bradford-Zipf Distribution," Journal of Documentation, 24: 247-59, (December 1968).

relevant to a given topic, three zones can be marked off--such that each zone produces one-third of the total number of papers. The first, the nuclear zone, contains a small number of highly productive journals, say  $n_1$ ; the second zone contains a large number of moderately productive journals, say  $n_2$ ; and the outer zone a still larger number of journals of low productivity, say  $n_3$ .

It was then easy to compare the "nuclear zone" of each journal frequency list.

Hypothesis IV was tested by using the "reuse" data gathered on the Info Systats Form #1 (See Figure 3), and then by arranging the reused citations in order of their frequency of use.

## V. Results

Hypothesis I states that the CML can identify user information needs with a 90% or greater accuracy. The first question on the revised evaluation form deals with this hypothesis. From the 202 evaluation forms returned, 122 (60.4%) of the users said that the CML's statement of their information need was worded "very accurately", 62 (30.7%) responded "quite accurately", 15 (7.4%) "somewhat accurately", 0 "not accurately at all", while three (1.5%) did not respond to this question. Only nine of the 202 users returning evaluation forms suggested changes in the wording of the CMLs' statements in the space provided on the form. These comments are listed in Appendix B. Thus, a total of 184 users (91.1%) indicated a high degree of accuracy, (very or quite), affirming our hypothesis.

This figure shows an increase over the First Grant Period, when similar responses accounted for only 413 (85.7%) of the total. Increased communication with the other team members and acceptance of the CML, added to continuing CML experience in the patient care setting, may be factors in the change between the two periods. In addition to the positive responses to this question, 68 users took the time to write general comments at the bottom of the form. Only nine of these (13.2%) indicated anything less than complete satisfaction with the CML search results. We have listed in Appendix B all of these general comments made by users at the end of the Evaluation form.

Hypothesis II states that a high degree of correlation exists between the judgment of the CML and that of the user as to the pertinence of the document(s) retrieved to fulfill the user's information need. We continue to define "a high degree" as 60% or greater agreement; and "pertinence" as the relevance, timeliness, and appropriateness of the document to the information need. Questions two and three on the evaluation form collected data relevant to this hypothesis.

Of the 202 users who returned evaluations, 192 (95.0%) responded "yes" to the question "Is the attached information pertinent...to the subject?" Four (2.0%) responded negatively, and six (3.0%) gave no response. A blank was provided for the user to note the authors of any non-pertinent documents, but this was never used.

In response to the next question regarding the degree of completeness of the document(s), 64 users (31.7%) stated that the package of documents was "very complete"; 89 (44.1%) responded with "quite complete"; 38 (18.8%) "somewhat complete"; six (3.0%) "not at all complete"; and five (2.5%) did not respond. Ninety-five percent of the evaluations report that the information retrieved was pertinent, and 75.8% report that the package of documents was very or quite complete. Thus, Hypothesis II is confirmed.

During the First Grant Period we considered "somewhat complete" as a positive response to the degree of completeness question on the evaluations since one document is often only part of a complete information package. During the Second Grant Period we asked the users to evaluate the package of documents as a whole, rather than each individual article. Therefore we no longer considered "somewhat" as a positive response. This also helps to explain the increase in the percentage responding "quite complete", and the decrease in those responding "somewhat complete" between the First Grant Period and the Second (See Table H).

Hypothesis III states that a limited number of journals produce most of the documents pertinent to the users' information needs. To test this hypothesis, we collected data on the source journals for the 3,161 documents that CMLs selected during the Second Grant Period in response to information needs arising in the patient care setting. A total of 410



journal titles yielded these documents, giving an average of 7.7 articles per source journal.

We arranged the list of journals from which CMLs selected pertinent documents in order of decreasing number of articles selected. Those journals that yielded a greater number of documents appeared at the top of the list, while those journals from which only one document was selected appear at the bottom. We then divided this frequency listing into three zones, according to Bradford's Law, so that the number of documents produced by the journals in each zone was equal to one-third of the total number of articles given (See Appendix C). Zone I in the Overall Journal Frequency List contains 14 journal titles (3.4% of the total number of titles). These 14 titles produced 33.3% of the documents (1,052 in all). Zone II contains 47 journal titles (11.5%) that produced 1,015 documents (32.1%). Zone III contains 349 journal titles (85.1%) that produced 1,094 documents (34.6%). Combining Zones I and II, we still have a limited number of journal titles, 61 (14.9%), which produced most of the pertinent documents, 2,067 (65.4%). This distribution confirms Hypothesis III.

Hypothesis III.A states that pertinent documents appear in a different set of journals for each category of user. As in the First Grant Period we divided the user groups into four broad categories.

- 1) Physicians - residents, house staff, docents, and other physicians;



- 2) Medical Students - students in Years 3-6 of the UMKC six-year program;
- 3) Other Team Members - including Nursing personnel, Clinical Pharmacists, Therapeutic Dieticians, Accredited Records Technicians, Social Workers, etc., working with the patient care teams; and
- 4) Team/Unit - that is documents that went into Unit files for the use of all team members.

Appendix D shows ranked frequency listings of source journals for documents delivered to individuals in each of these four groups.

We hypothesized that different journals would be more productive of pertinent documents for each user group. Using Bradford's Law we divided each of these journal listings into three Zones, each yielding approximately one-third of the documents selected by the CMLs for that user category. We then compared the journal titles that fell into Zone I on each of the four lists (i.e. those few journals that were most productive of documents) to determine the correlation between the lists. Those journals that ranked in Zones II and III on the lists by user category produced too few documents each to contribute significantly to our report. Twenty-two different journals appeared in Zone I on at least one of the user lists. Three titles (13.6% of the 22 source journals) appeared in Zone I on all four lists, four titles (18.2%) appeared on three lists; three titles (13.6%) appeared on two lists; and twelve titles (54.5%) were unique to the first zone of one list. Table I

lists these specific titles. With over half of the titles unique to one of the four Zone I lists we believe that Hypothesis III.A is affirmed.

Hypothesis III.B states that pertinent documents appear in a different set of journals for each category of information need. Eight broad subject categories (Cardiovascular, Digestive System, Obstetrics/Gynecology, Pediatrics, Diagnosis, Drug Therapy, Surgery, and General Therapeutics) contained a large enough listing of source journals to be statistically comparable (See Appendix E). Again we divided these lists into Bradford Zones and compared the titles from Zone I on each. There were a total of 31 titles that appeared in Zone I on at least one of the eight lists. None appeared on seven or all eight of the Zone I lists. Three titles (9.7%) appeared in Zone I on six of the lists; two titles (6.5%) appeared on five lists; five titles (16.1%) appeared on two lists; and sixteen titles (51.6%) were unique. Table J lists these specific titles. Again, we believe that the high percentage of unique titles (51.6%) affirms Hypothesis III.B.

Hypothesis III.C, the extension added during the Second Grant Period, states that pertinent documents appear in a different set of journals for each clinical specialty or discipline (See Appendix F). When comparing the journals in Bradford Zone I on each listing for this hypothesis, we again found a difference between the lists. Thirty different titles appeared in Zone I across the five listings for Internal Medicine,

Family Practice, Pediatrics, Surgery, and Obstetrics/Gynecology. No title appeared in Zone I on all five lists and only one title (3.3%) appeared on four lists; two titles (6.7%) appeared on three lists; and five titles (16.7%) appeared on two lists. There were 22 titles (73.3%) appearing on one list only. The specific titles are shown in Table K. The overlapping which did occur by discipline, most frequently involved Family Practice and Internal Medicine as might be expected since there is a similarity of content in these two specialties. Family Practice and Pediatrics journals also overlapped considerably, perhaps due to the broad scope of our general family practice teaching hospital. We are not surprised that the New England Journal of Medicine occurred so frequently in Zone I no matter how we broke down the lists. NEJM has always been a leader in medical journals of broad scope. It is considered a "textbook" at the UMKC School of Medicine.

Hypothesis IV states that the CML can develop a Clinical Document Citation File (CDCF) which fulfills information needs in comparable settings. To test this hypothesis we compiled data on the repeat use of the documents that were identified for the CDCF. Table L shows the repeat use during the trial period, the First Grant Period, the interim period, and, monthly through the Second Grant Period, up to February 1977. The trend of increasing repeat use indicated during the First Grant Period continued to the present as represented in the graph in Figure 1. The overall repeat use is 21.9%. This

may indicate that the documents in the file are often useful in settings other than those for which the documents were initially chosen by the CMLs.

It is interesting to notice that just as a core list of source journals can be described, it appears that a core list of frequently used documents is recognizable as shown in Table M. A very small percentage of the documents (507, 9.5%) have been used three or more times, but they have provided a much larger percentage of the total number of uses (1,998, 26.2%). This distribution is similar to the Bradford distributions of journal titles used to confirm Hypothesis III, with some important differences.

The 28 core citations used seven or more times by the CMLs are listed in Appendix G. The listing also indicates the rank on our Overall Journal Frequency List of the journal in which each article was published. Journals which yielded a high number of documents in the overall list have a low rank number and vice versa (See Appendix C). The lack of correlation between the ranking of the documents and the ranking of the journals in which they were published is striking. In fact, only eight of the fourteen Zone I journal titles were sources of any of these heavily used documents. The average rank of the source journals for these 28 documents is only 18.6 which falls in Zone II on our Bradford distribution of Journal titles (ranks varied from a high of one to a low of 42).

This low correlation between quantity journals (those that yield a large number of documents), and quality journals (those that publish heavily used articles) has been described previously.\*<sup>+</sup>

There is, however, some correlation between the year of publication and the frequency with which these documents were used. Clearly, the longer a document remains in the CDCF/DOCLINE file, the greater the chance it will be used frequently, since it will be readily available longer and time will increase the likelihood that a similar information need will occur once again. On the other hand, if a document remains in the CDCF/DOCLINE file for a long period of time without being reused, the chances are good that it will not be used again.

Hypothesis IV.A states that using the Clinical Document Citation File (CDCF) and MEDLINE is more efficient than using MEDLINE alone in response to each information need. At the time of our previous report, the CDCF had not grown to a size sufficient to respond effectively to information needs. By March 1977 the CDCF contained over 6,300 citations. However, computer software limitations require us to maintain the on-line data base (DOCLINE) at four to five thousand citations for efficient searching. Manual searching of the entire file is possible with the printed CDCF indexes.

---

\*Mark Funk, "Bradford's Law and the Selection of High Quality Papers," (Unpublished Masters Paper, School of Library and Information Science, University of Missouri-Columbia, 1976).

<sup>+</sup>Gertrude Houser Lamb, "Coincidence of Quality and Quantity in the Literature of Mathematics," (Ph.D. Dissertation, Case Western Reserve University, 1971).



Beginning in March 1976, CMLs kept a log of each DOCLINE or CDCF search performed. A survey of these searches since that time shows a trend of decreasing use of the file (See Figure 2). There are several factors contributing to this downward trend. In August 1976 two staff members who had worked closely with the CDCF/DOCLINE programming left the Medical Library. As inevitable problems developed in the computer operations, documentation was not sufficient to arrive quickly and easily at the solutions. This caused many weeks of inaccurate search results. The unreliability of DOCLINE during this period and the cumbersomeness of manually searching over 6,000 citations caused us to rely heavily on MEDLINE once again. Software problems also prevented us from executing a detailed test and evaluation of Hypothesis IV.A as set forth in the original experimental design.

Another factor contributing to the decreased use of DOCLINE is the need to provide current information for our users. A search of DOCLINE yields relatively recent information. But CMLs usually avoid missing the most recent articles only by doing a follow-up MEDLINE search.

This problem of maintaining the most up-to-date data in the file has led us to consider a new method of adding citations to DOCLINE. A study of the most frequently encountered problems of our patient population, together with the most frequently occurring MeSH terms in the CDCF/DOCLINE file has given us a core group of subject areas. These subjects combined with the



titles of source journals from Zones I and II of the ranked journal listings have been developed into an SDILINE search strategy. We hope to use this search formulation as a stored hedge which will retrieve 200 - 250 citations each month. We will add these to DOCLINE monthly providing the most current articles on a high percentage of the patient care problems encountered at TMC. It will then be necessary to turn to MEDLINE and other sources only when more obscure patient care or research information needs are identified. The best of these articles retrieved from MEDLINE will also be added to DOCLINE.

#### VI. New Directions

The Final Report for the First Grant Period listed six activities for future consideration. Some of these activities have been completed and others are in various stages of accomplishment.

1) We have extended our current experience to other settings; Surgery, Pediatrics, Obstetrics and Gynecology, and a family practice hospital. Methods identified during the First Grant Period for providing information to practitioners and learners have proved useful and valuable in these new areas.

2) The CDCF/DOCLINE data base has expanded from less than 2,000 to over 6,300 citations not only in General Medicine, but also in the special subject areas reflected by the new settings.

3) The increased statistics from the Second Grant Period will provide us with a representative data base of sufficient

size to permit an analysis of the data by the Bradford-Goffman Distribution rather than the simple Bradford distribution we have used to this point. We plan to analyze and report on the expanded data in the coming months.

4) We extended the recording and descriptive activities to new areas of medicine. We are now in the process of assessing the goals, products, and functional characteristics of the system beyond the research activities of the past four and one-half years.

5) The CMLs developed and improved the CDCF/DOCLINE data base, facilitating the input of new data and access by all users. The software governing the input of unit records has been improved to allow quick corrections of errors and a much cleaner data base. The manual for the use of DOCLINE is currently being rewritten to make the online data base more accessible to the uninitiated. Two area hospitals (Research Medical Center and Menorah Medical Center) have used the printed CDCF with good results and favorable acceptance by the health personnel receiving service.

6) The development of recommendations for a core list of journals to support health practitioners and learners will soon be accomplished. The data and listings in this report are the final steps preliminary to such recommended core lists.

In addition to the six activities for future consideration from the report of the First Grant Period outlined above, there are six additional areas where we feel there is a strong need

for additional research and field testing.

1. Continued expansion and improvement of the CDCF/DOCLINE.

In their day-to-day activities the CMLs continue to add citations pertinent to patient care problems to the data base. In addition, we are developing a MEDLINE search formulation reflecting the most frequently seen patient problems and the most frequently used journals. This search strategy can be run against the SDILINE file of the National Library of Medicine to provide a set of potentially relevant, up-to-date journal citations each month. The CMLs will add other specific documents to the CDCF/DOCLINE as patient care information needs are met.

The weeding technic developed to maintain the online file, DOCLINE, at 4,000 - 5,000 citations takes into account frequency of use and date of input into the file. Those documents added to the data base during the First Grant Period and not reused since their original selection (thus implying their lack of usefulness in different settings or time periods), have been weeded from the online file. They are maintained in an archives file and are available for manual searching. This technic will continue to move the older, non-reused citations to the manual file, keeping the most useful and current documents in the online data base. We will report on this updating/weeding procedure in more detail after the system is more thoroughly tested in the months ahead.

Software improvements could make DOCLINE more "searchable".

It is now possible to search directly on both MeSH terms and textwords, as well as author, source journal, and year of publication, combining all with Boolean logic. Additional search features such as the "Explode" in MEDLINE would greatly improve search results in DOCLINE. Furthermore, the addition of an informative abstract to each citation would make the file more immediately useful.

The CDCF and DOCLINE are available to students and faculty of the UMKC School of Medicine as well as to the CMLs. As the CMLs work with the medical students and other team members they teach them to use these new tools as well as traditional library materials. This enables the students quickly to locate information on their own when a CML is not available. Additional studies on the amount and character of student/faculty use of our data base are needed.

## 2. Training of Clinical Medical Librarians.

During the summer of 1975, the Project Director and the CMLs conducted interviews for the four new positions available in the late summer and early fall, and for the replacement of one CML in Internal Medicine. The five new CMLs started work between the end of July and the beginning of October. Much preliminary work on the training of these new CMLs resulted in an intense schedule of two weeks' orientation to the new setting, and supervision for several weeks thereafter until each felt oriented to the systems and procedures used. This training schedule proved to be very difficult for the new CMLs. In

addition to the complication of training five new CMLs while maintaining service on four patient care teams, the amount of information transferred during the short time period resulted in an "information-overload" condition in the trainees.

Since 1976 we have trained two additional CMLs as positions became vacant. The training period now lasts for one month and covers all aspects of the position in more detail. Although the initial training period is no longer so difficult, we feel that much more research is needed in the selection and training of new CMLs. We especially need to be able to identify those librarians whose backgrounds and personality characteristics will contribute to effective CML performance. We also need research which will identify those aspects of CML work which can be taught, as opposed to those that must be learned by the new CML on the job.

### 3. Core lists of journals.

The data from the Second Grant Period can be combined with that from the First Grant Period resulting in statistics on over 6,000 documents and their source journals. We can analyze this data to produce more statistically valid core listings. Our limited work along these lines indicates that these core lists can be very useful supplements to those suggested by Stearns, Brandon, the American College of Physicians, and others.



#### 4. A core list of documents.

As we examined the data on the frequency of reuse of the documents in the CDCF/DOCLINE data base, we found that a few "core" documents had been used many times by most of the CMLs. This leads us to hypothesize that perhaps just as there is a Bradford frequency distribution for journals there might also be a similar distribution of patient care information documents. A detailed study of the core list of documents, compared to the core list of journals, might contribute more data to that already examined by Funk, Lamb, and others on the question of quantity versus quality.

#### 5. Replication of results elsewhere.

Our experimental design needs to be replicated in a setting similar to, but separate from that in which we have been working. This will help to determine if we are unique, or if the services we offer can be successful in other institutions. The study at Hartford Hospital in Connecticut\* will add to this field of knowledge.

#### 6. Possible implications for staffing medical libraries.

The CMLs deliver a highly specialized information service to a majority of the users of our Medical Library. This extension of service is possible due to the somewhat larger number of librarians involved with reference activities than in the traditional medical school. The Docent Team structure of the

---

\* Gertrude Houser Lamb, "Clinical Librarians in a Patient Care/Teaching Setting, Terminal Progress Report," (Hartford, Connecticut, June 1976).



UMKC School of Medicine makes the CML concept more feasible. However, other successful, if limited, CML programs at more traditional institutions across the country indicate that this type of service is ultimately desirable and feasible in many settings and situations. Research comparing the kinds and costs of CML services on a nationwide basis would be very valuable.

TABLES, FIGURES AND  
APPENDICES

TABLE A

Types of Transactions Conducted by  
the Clinical Medical Librarians

| TIME PERIOD         | TOTAL TRANSACTIONS | TOTAL DOCUMENTS | TRANSACTIONS YIELDING DOCUMENTS | AVERAGE DOCUMENTS PER TRANSACTION |
|---------------------|--------------------|-----------------|---------------------------------|-----------------------------------|
| First Grant Period  | 961                | 1825            | 755 (78.5%)                     | 2.42                              |
| Second Grant Period | 2390               | 3161            | 1493 (62.4%)                    | 2.12                              |
| TOTAL               | 3351               | 4986            | 2248 (67.1%)                    | 2.22                              |

AVERAGE NUMBER OF DOCUMENTS PER TRANSACTION

Other Types of Transactions

| PERIOD              | TRANSACTIONS YIELDING ONLY BIBLIOGRAPHIES | TRANSACTIONS YIELDING BOOKS OR AUDIO-VISUALS | TRANSACTIONS FROM WHICH NO DOCUMENTS WERE IDENTIFIED |
|---------------------|-------------------------------------------|----------------------------------------------|------------------------------------------------------|
| First Grant Period  | 171 (17.8%)                               | *                                            | 35 (3.6%)                                            |
| Second Grant Period | 696 (29.1%)                               | 151 (6.3%)                                   | 50 (2.1%)                                            |
| TOTAL               | 867 (25.8%)                               | 151 (4.5%)                                   | 85 (2.5%)                                            |

\*Not recorded during First Grant Period

TABLE B

Number of Transactions Per  
Clinical Medical Librarian  
Per Month

| TIME PERIOD         | TRANSACTIONS | NUMBER OF CLINICAL MEDICAL LIBRARIANS | NUMBER OF MONTHS DATA COLLECTED | TRANSACTIONS PER MONTH PER CLINICAL MEDICAL LIBRARIAN |
|---------------------|--------------|---------------------------------------|---------------------------------|-------------------------------------------------------|
| First Grant Period  | 961          | 4                                     | 9                               | 26.7                                                  |
| Second Grant Period | 2390         | 8                                     | 7                               | 42.7                                                  |

TABLE C

Types of Information Needs  
Identified by the Clinical Medical Librarians

| PERIOD                    | TRANSACTIONS<br>REQUESTED<br>BY THE USER | TRANSACTIONS<br>ANTICIPATED BY<br>THE CLINICAL<br>MEDICAL LIBRARIANS | TRANSACTIONS<br>FROM USER<br>SELECTIONS | TRANSACTIONS<br>FOR EDUCATION |
|---------------------------|------------------------------------------|----------------------------------------------------------------------|-----------------------------------------|-------------------------------|
| First<br>Grant<br>Period  | 445 (46.4%)                              | 298 (30.9%)                                                          | 25 (2.6%)                               | 193 (20.1%)                   |
| Second<br>Grant<br>Period | 1334 (55.7%)                             | 396 (16.5%)                                                          | 101 (4.2%)                              | 559 (23.5%)                   |
| TOTAL                     | 1779 (53.1%)                             | 990 (29.5%)                                                          | 126 (3.8%)                              | 752 (22.4%)                   |

TABLE D

Comparison of the Index of Efficiency

For the Two Grant Periods

---

|                        |                                                             |
|------------------------|-------------------------------------------------------------|
| First Grant<br>Period  | $I_1 = \frac{29.3 + 31.5}{2.42} = \frac{60.8}{2.42} = 25.1$ |
| Second Grant<br>Period | $I_2 = \frac{31.7 + 44.1}{2.12} = \frac{75.8}{2.12} = 35.8$ |

---

$$I = \frac{V + Q}{D}$$

I = Index of Efficiency

V = "Very complete"

Q = "Quite complete"

D = "Average number of documents"



TABLE E

Comparison of the Index of Efficiency  
for Experienced and Inexperienced  
Clinical Medical Librarians

|                      |   |                                            |                                         |
|----------------------|---|--------------------------------------------|-----------------------------------------|
|                      | 1 | $I_{e1} = \frac{29.4 + 35.3}{1.37} = 47.2$ |                                         |
| <u>EXPERIENCED</u>   | 2 | $I_{e2} = \frac{0.0 + 69.2}{2.03} = 34.1$  | $I_e = \frac{26.5 + 48.2}{1.99} = 37.5$ |
|                      | 3 | $I_{e3} = \frac{50.0 + 40.0}{2.54} = 35.4$ |                                         |
|                      | 4 | $I_{i1} = \frac{33.3 + 62.5}{1.97} = 48.6$ |                                         |
|                      | 5 | $I_{i2} = \frac{46.0 + 36.0}{2.46} = 33.3$ |                                         |
| <u>INEXPERIENCED</u> | 6 | $I_{i3} = \frac{20.0 + 31.4}{2.59} = 19.8$ | $I_i = \frac{32.1 + 48.6}{2.62} = 30.8$ |
|                      | 7 | $I_{i4} = \frac{26.3 + 63.2}{3.00} = 29.8$ |                                         |
|                      | 8 | $I_{i5} = \frac{35.0 + 50.0}{3.27} = 26.0$ |                                         |

TABLE F

Comparison of Return of Evaluation Forms

| TIME<br>PERIOD           | EVALUATIONS<br>SENT | EVALUATIONS<br>RETURNED | EVALUATIONS<br>NOT RETURNED |
|--------------------------|---------------------|-------------------------|-----------------------------|
| First Grant<br>Period*   | 878                 | 482 (54.9%)             | 396 (45.1%)                 |
| Second Grant<br>Period** | 520                 | 202 (38.8%)             | 318 (61.2%)                 |
| TOTAL                    | 1398                | 684 (48.9%)             | 714 (51.1%)                 |

\*Individual documents evaluated

\*\*Packages of documents evaluated

TABLE G

Comparison of Evaluation Forms  
Returned by the Four User Groups

| TIME PERIOD         | PHYSICIANS  | MEDICAL STUDENTS | OTHER TEAM MEMBERS | OTHERS    |
|---------------------|-------------|------------------|--------------------|-----------|
| First Grant Period  | 212 (44.0%) | 175 (36.3%)      | 95 (19.7%)         | *         |
| Second Grant Period | 95 (47.0%)  | 63 (31.2%)       | 27 (13.4%)         | 17 (8.4%) |
| TOTAL               | 307 (44.9%) | 238 (34.8%)      | 122 (17.8%)        | 17 (2.5%) |

\*No other groups were evaluated during the First Grant Period

TABLE H

Responses to the Question, "To What Degree of  
Completeness Do/Does the Attached Documents  
Answer the Question(s) You Had About the Subject?"

| TIME PERIOD           | "VERY" COMPLETE | "QUITE" COMPLETE | "SOMEWHAT" COMPLETE | "NOT AT ALL" COMPLETE |
|-----------------------|-----------------|------------------|---------------------|-----------------------|
| First Grant Period*   | 29.3%           | 31.5%            | 33.8%               | 4.8%                  |
| Second Grant Period** | 31.7%           | 44.1%            | 18.8%               | 3.0%                  |
| OVERALL AVERAGE       | 30.0%           | 35.2%            | 29.4%               | 4.2%                  |

\*Individual documents evaluated

\*\*Packages of documents evaluated

Positive Responses to the Question on Completeness

| TIME PERIOD         | "VERY COMPLETE" AND "QUITE COMPLETE" |
|---------------------|--------------------------------------|
| First Grant Period  | 60.8%                                |
| Second Grant Period | 75.8%                                |
| OVERALL AVERAGE     | 65.2%                                |

TABLE I

SOURCE JOURNALS FROM ZONE I  
ON THE FOUR USER CATEGORY LISTS\*

Titles in Zone I on All Four Lists

Annals of Internal Medicine  
Journal of the American Medical Association  
New England Journal of Medicine

Titles in Zone I on Three Lists

American Journal of Medicine  
Chest  
Lancet  
Medical Clinics of North America

Titles in Zone I on Two Lists

American Journal of Obstetrics and Gynecology  
British Medical Journal  
Obstetrics and Gynecology

Titles in Zone I on Only One List

Advances in Internal Medicine  
American Journal of Nursing  
American Journal of Surgery  
American Review of Respiratory Disease  
American Surgeon  
Archives of Internal Medicine  
Archives of Surgery  
Cancer  
Clinical Obstetrics and Gynecology  
Gerontologist  
Pediatrics  
Postgraduate Medicine

\*See Appendix D for breakdown into Bradford Zones

TABLE J

SOURCE JOURNALS FROM ZONE I  
ON THE EIGHT SUBJECT LISTS\*

Titles in Zone I on Six Lists

American Journal of Obstetrics and Gynecology  
British Medical Journal  
New England Journal of Medicine

Titles in Zone I on Five Lists

Journal of the American Medical Association  
Obstetrics and Gynecology

Titles in Zone I on Three Lists

American Journal of Surgery  
Annals of Internal Medicine  
Annals of Surgery  
Archives of Surgery  
Chest

Titles in Zone I on Two Lists

Archives of Internal Medicine  
Clinical Obstetrics and Gynecology  
Lancet  
Medical Clinics of North America  
Surgical Clinics of North America

Titles in Zone I on Only One List

American Heart Journal  
American Journal of Cardiology  
American Journal of Diseases of Children  
American Journal of Gastroenterology  
American Journal of Medicine  
American Surgeon  
British Journal of Surgery  
Cancer  
Circulation; Journal of the American Heart Association  
Developmental Medicine and Child Neurology  
Gastroenterology  
Journal of Pediatrics  
Pediatrics  
Postgraduate Medicine  
Southern Medical Journal  
Surgery, Gynecology and Obstetrics

\*See Appendix E for breakdown into Bradford Zones



TABLE K

SOURCE JOURNALS FROM ZONE I  
ON THE FIVE DISCIPLINE LISTS\*

Titles in Zone I on Four Lists

New England Journal of Medicine

Titles in Zone I on Three Lists

British Medical Journal  
Journal of the American Medical Association

Titles in Zone I on Two Lists

Annals of Internal Medicine  
Cancer  
Lancet  
Medical Clinics of North America  
Pediatrics

Titles in Zone I on Only One List

Acta Paediatrica Scandinavica  
American Heart Journal  
American Journal of Diseases of Children  
American Journal of Medicine  
American Journal of Obstetrics and Gynecology  
American Journal of Surgery  
American Review of Respiratory Disease  
American Surgeon  
Annals of Surgery  
Archives of Internal Medicine  
Archives of Surgery  
British Journal of Surgery  
Chest  
Circulation; Journal of the American Heart Association  
Clinical Obstetrics and Gynecology  
Developmental Medicine and Child Neurology  
Journal of Pediatrics  
Obstetrics and Gynecology  
Pediatric Clinics of North America  
Postgraduate Medicine  
Southern Medical Journal

\*See Appendix F for breakdown into Bradford Zones

TABLE L

Repeat Use of Documents Given By  
Clinical Medical Librarians

| TIME PERIOD                     | DOCUMENTS NOT ALREADY IN CDCF | DOCUMENTS ALREADY IN CDCF- REPEAT USE | TOTAL DOCUMENTS GIVEN | PERCENT OF TOTAL THAT WAS REPEAT USE |
|---------------------------------|-------------------------------|---------------------------------------|-----------------------|--------------------------------------|
| Trial Period (Feb 74)           | 137                           | 1                                     | 138                   | 0.7%                                 |
| First Grant Period (Mar-Nov 74) | 1383                          | 209                                   | 1592                  | 13.1%                                |
| Interim Period (Dec 74-Apr 75)  | 306                           | 82                                    | 388                   | 21.3%                                |
| October, 1975                   | 695                           | 77                                    | 772                   | 9.9%                                 |
| November                        | 587                           | 125                                   | 712                   | 17.6%                                |
| December                        | 345                           | 173                                   | 518                   | 33.4%                                |
| January, 1976                   | 372                           | 31                                    | 403                   | 7.7%                                 |
| February                        | 242                           | 100                                   | 342                   | 29.2%                                |
| March                           | 343                           | 130                                   | 473                   | 27.5%                                |
| April - May                     | 613                           | 222                                   | 835                   | 26.6%                                |
| June                            | 280                           | 102                                   | 382                   | 26.7%                                |
| July                            | 372                           | 156                                   | 531                   | 29.9%                                |
| August                          | 272                           | 107                                   | 379                   | 28.2%                                |
| September                       | 300                           | 142                                   | 442                   | 32.1%                                |
| October                         | 192                           | 100                                   | 292                   | 34.2%                                |
| November                        | 227                           | 93                                    | 320                   | 29.1%                                |
| December                        | 165                           | 52                                    | 217                   | 24.0%                                |
| January, 1977                   | 84                            | 29                                    | 113                   | 25.7%                                |
| February                        | 83                            | 32                                    | 115                   | 27.8%                                |
| TOTAL                           | 6998                          | 1966                                  | 8964                  | 21.9%                                |

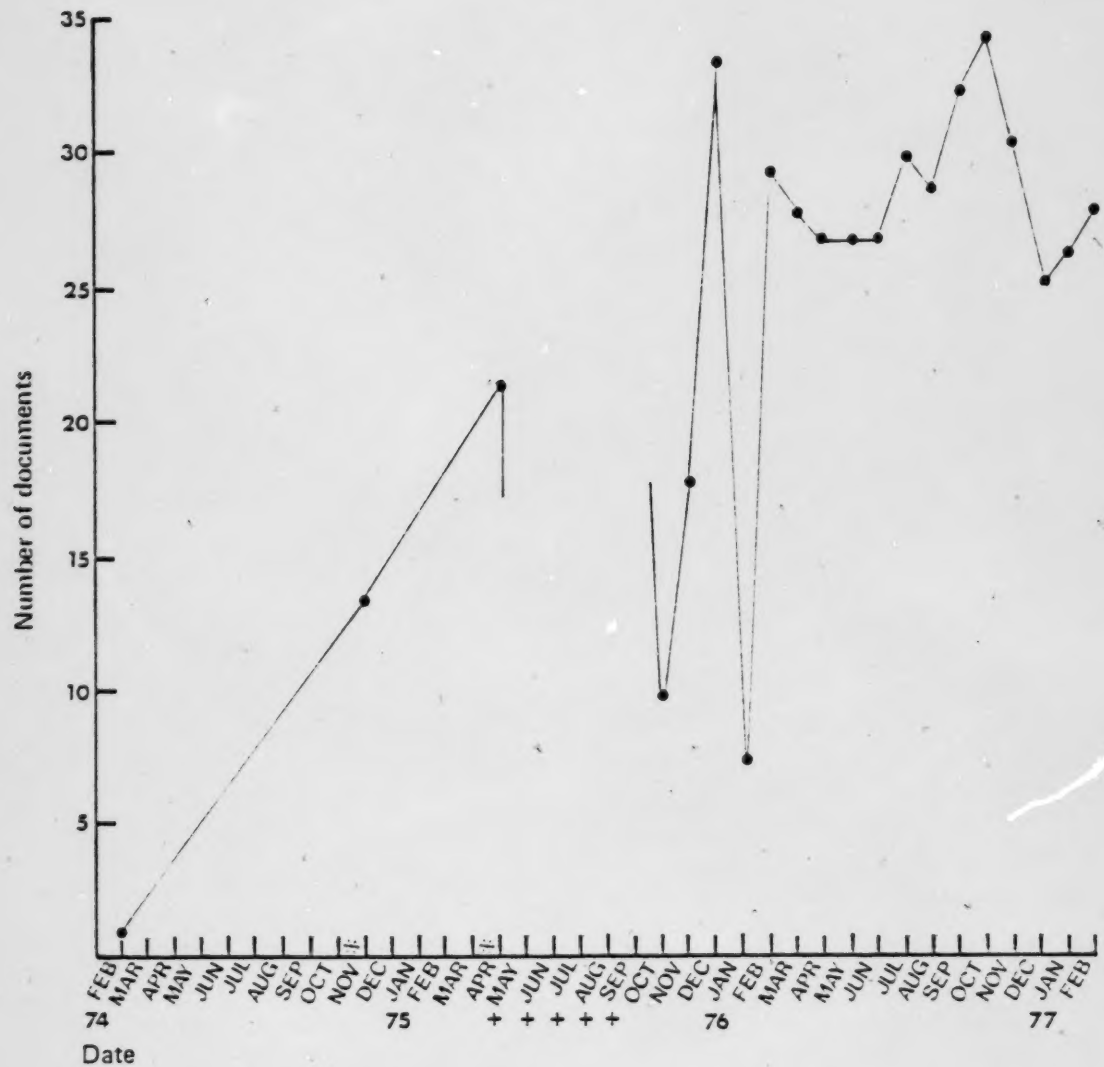
TABLE M

Frequency of Use of CDCF/DOCLINE Citations

| TIMES USED                | TOTAL NUMBER<br>OF DOCUMENTS | PERCENT OF<br>TOTAL UNIQUE<br>DOCUMENTS | TOTAL NUMBER<br>OF USES | PERCENT OF<br>TOTAL TIMES<br>USED |
|---------------------------|------------------------------|-----------------------------------------|-------------------------|-----------------------------------|
| Twelve uses               | 2                            | (<0.1%)                                 | 24                      | (0.3%)                            |
| Eleven uses               | 3                            | (<0.1%)                                 | 33                      | (0.4%)                            |
| Ten uses                  | 2                            | (<0.1%)                                 | 20                      | (0.3%)                            |
| Nine uses                 | 4                            | (<0.1%)                                 | 36                      | (0.5%)                            |
| Eight uses                | 7                            | (0.1%)                                  | 56                      | (0.7%)                            |
| Seven uses                | 10                           | (0.2%)                                  | 70                      | (0.9%)                            |
| Six uses                  | 26                           | (0.5%)                                  | 156                     | (2.0%)                            |
| Five uses                 | 60                           | (1.1%)                                  | 300                     | (3.9%)                            |
| Four uses                 | 124                          | (2.3%)                                  | 496                     | (6.5%)                            |
| Three uses                | 269                          | (5.1%)                                  | 807                     | (10.6%)                           |
| Two uses                  | 815                          | (15.3%)                                 | 1630                    | (21.4%)                           |
| One use                   | 4004                         | (75.2%)                                 | 4004                    | (52.5%)                           |
| TOTAL UNIQUE<br>DOCUMENTS | <u>5326</u>                  |                                         |                         |                                   |
| TOTAL TIMES<br>USED       |                              |                                         | <u>7632</u>             |                                   |

Figure 1

Graph showing increasing repeat use of documents



\* Data cumulated for period of time

+ Data not available for this month

Figure 2

CDCF/DOCLINE Searches  
Done by Clinical Medical Librarians

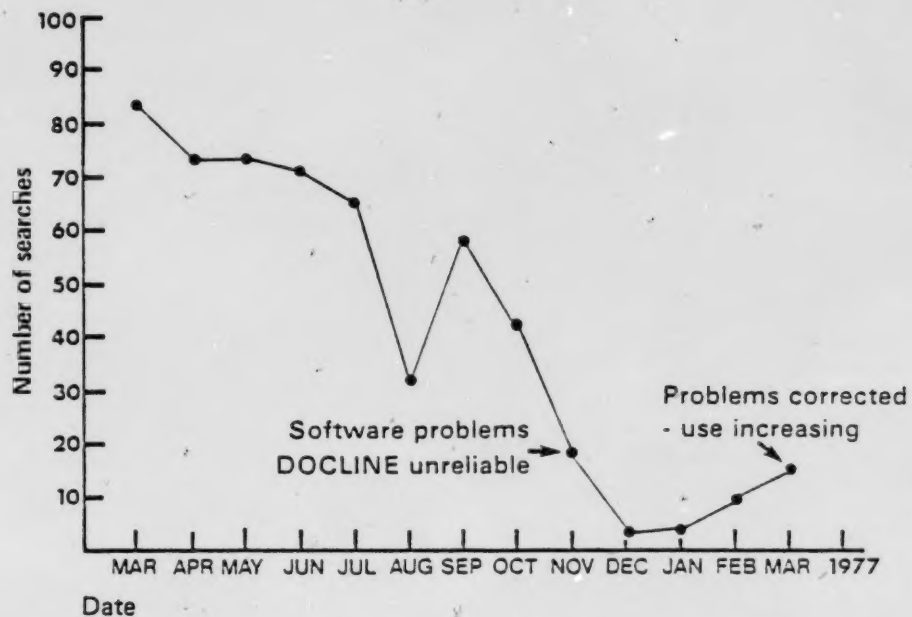


Figure 3

| TRANSACTION # _____                                                                                                                                                                                                                                                                                                                                                                                              |     | PATIENT CARE INFORMATION SYSTEM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       | JULIAN DATE _____ |  |        |     |      |       |       |         |  |  |  |  |         |  |  |  |  |         |  |  |  |  |         |  |  |  |  |         |  |  |  |  |         |  |  |  |  |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|-------------------|--|--------|-----|------|-------|-------|---------|--|--|--|--|---------|--|--|--|--|---------|--|--|--|--|---------|--|--|--|--|---------|--|--|--|--|---------|--|--|--|--|
| <b>USER CATEGORIES</b><br><br><b>MD</b><br>Resident<br>Year 1<br>Year 2<br>Year 3<br>Docent<br>Other<br><br><b>MEDICAL STUDENT</b><br>Year 1 & 2<br>Year 3<br>Year 4<br>Year 5<br>Year 6<br><br><b>UNIT MEMBERS</b><br>Clinical Pharmacists<br>Nurse<br>Ther Dietician<br>Other staff<br>Students, not medical<br>Others<br><br><b>UNIT SEARCH</b><br>Docent<br>Other<br><br><b>OTHERS</b><br>Students<br>Others |     | <b>CLINICAL SCIENCES</b><br>Behavioral + Mental Disorders<br>Cardiovascular Diseases<br>Dermatologic Diseases<br>Digestive Diseases<br>Endocrine Diseases<br>General Path, Signs + Symptoms<br>Gynecologic + Obstet Diseases<br>Hemic + Lymphatic Diseases<br>Immunologic Diseases<br>Infectious Diseases<br><br>Injuries + Poisoning+Occupational<br>Musculoskeletal Diseases<br>Neonatal Diseases + Abnormalities<br>Neoplasms<br>Neurologic Diseases<br>Ocular Diseases<br>Oral Diseases<br>Otorhinolaryngologic Diseases<br>Nutritional + Metabolic Diseases<br>Respiratory Diseases<br>Urinary + Male Genital Diseases<br><br><b>QUESTION CATEGORIES</b><br><b>BASIC SCIENCES</b><br>Anatomy + Morphology<br>Biochemistry<br>Genetics<br>Microbiology<br>Pharmacology<br>Physiology<br>Psychology, Behavior<br>+ Testing<br>Social Sciences and<br>Demography<br><b>DIAGNOSIS</b><br>Laboratory<br>Physical or Electrical<br>Psychologic Evaluation + Testing<br>Radiographic<br>Surgical + Pathological<br>Diagnosis, Differential<br><b>MISCELLANEOUS</b><br>Etiology<br>Physiopathology<br>Public Health; Prevant. Med., + Epidemiology<br>Techniques + Equipment<br>Special Topics<br><br><b>THERAPY</b><br>Biological Therapy<br>Diet Therapy<br>Drug Therapy<br>Physical Therapy + Rehab<br>Psychotherapy + Counseling<br>Radiotherapy<br>Surgery |       |                   |  |        |     |      |       |       |         |  |  |  |  |         |  |  |  |  |         |  |  |  |  |         |  |  |  |  |         |  |  |  |  |         |  |  |  |  |
| <b>INITIALS</b><br><br><b>EVALUATION</b><br>Sent<br>Not Sent<br><br><b>SUPPLEMENTARY ANSWER</b><br>Bibliography<br>TXB<br>AVM<br># of Articles Given                                                                                                                                                                                                                                                             |     | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 35%;">ANSWER</th> <th style="width: 10%;">ILL</th> <th style="width: 10%;">CDCF</th> <th style="width: 10%;">JCODE</th> <th style="width: 10%;">REUSE</th> </tr> </thead> <tbody> <tr><td>01-----</td><td></td><td></td><td></td><td></td></tr> <tr><td>02-----</td><td></td><td></td><td></td><td></td></tr> <tr><td>03-----</td><td></td><td></td><td></td><td></td></tr> <tr><td>04-----</td><td></td><td></td><td></td><td></td></tr> <tr><td>05-----</td><td></td><td></td><td></td><td></td></tr> <tr><td>06-----</td><td></td><td></td><td></td><td></td></tr> </tbody> </table>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |       |                   |  | ANSWER | ILL | CDCF | JCODE | REUSE | 01----- |  |  |  |  | 02----- |  |  |  |  | 03----- |  |  |  |  | 04----- |  |  |  |  | 05----- |  |  |  |  | 06----- |  |  |  |  |
| ANSWER                                                                                                                                                                                                                                                                                                                                                                                                           | ILL | CDCF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | JCODE | REUSE             |  |        |     |      |       |       |         |  |  |  |  |         |  |  |  |  |         |  |  |  |  |         |  |  |  |  |         |  |  |  |  |         |  |  |  |  |
| 01-----                                                                                                                                                                                                                                                                                                                                                                                                          |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |                   |  |        |     |      |       |       |         |  |  |  |  |         |  |  |  |  |         |  |  |  |  |         |  |  |  |  |         |  |  |  |  |         |  |  |  |  |
| 02-----                                                                                                                                                                                                                                                                                                                                                                                                          |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |                   |  |        |     |      |       |       |         |  |  |  |  |         |  |  |  |  |         |  |  |  |  |         |  |  |  |  |         |  |  |  |  |         |  |  |  |  |
| 03-----                                                                                                                                                                                                                                                                                                                                                                                                          |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |                   |  |        |     |      |       |       |         |  |  |  |  |         |  |  |  |  |         |  |  |  |  |         |  |  |  |  |         |  |  |  |  |         |  |  |  |  |
| 04-----                                                                                                                                                                                                                                                                                                                                                                                                          |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |                   |  |        |     |      |       |       |         |  |  |  |  |         |  |  |  |  |         |  |  |  |  |         |  |  |  |  |         |  |  |  |  |         |  |  |  |  |
| 05-----                                                                                                                                                                                                                                                                                                                                                                                                          |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |                   |  |        |     |      |       |       |         |  |  |  |  |         |  |  |  |  |         |  |  |  |  |         |  |  |  |  |         |  |  |  |  |         |  |  |  |  |
| 06-----                                                                                                                                                                                                                                                                                                                                                                                                          |     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |       |                   |  |        |     |      |       |       |         |  |  |  |  |         |  |  |  |  |         |  |  |  |  |         |  |  |  |  |         |  |  |  |  |         |  |  |  |  |



Figure 4

UMKC Medical Library User Evaluation Form

TRANSACTION # \_\_\_\_\_ UMKC MEDICAL LIBRARY USER EVALUATION DATE \_\_\_\_\_

After you finish reading the article(s), please take a moment  
to fill out this evaluation form and return it to your Clinical  
Medical Librarian or the Medical Library. Thank you.

The attached document(s) has/have information on: \_\_\_\_\_

- 1) Is this statement of your information need made accurately?  
\_\_\_\_ Very accurately \_\_\_\_ Quite accurately \_\_\_\_ Somewhat accurately \_\_\_\_ Not accurately at all

If the subject was stated less accurately than you had in mind,  
please state the subject that would better define your information  
need. \_\_\_\_\_

- 2) Is the attached information pertinent (timely, appropriate, relevant) to the subject?

\_\_\_\_ Yes \_\_\_\_ No Note author(s) of NON-relevant document(s) \_\_\_\_\_

- 3) To what degree of completeness do/does the attached document(s) answer the question(s)  
you had about the subject?

\_\_\_\_ Not at all complete \_\_\_\_ Somewhat complete \_\_\_\_ Quite complete \_\_\_\_ Very complete

- 4) What was the primary use of the information? (Choose as many as apply)

\_\_\_\_ Patient Care \_\_\_\_\_ Presentation (writing a paper or  
giving a lecture)  
\_\_\_\_ Diagnosis \_\_\_\_ Drug Therapy  
\_\_\_\_ Etiology \_\_\_\_ Other Treatment \_\_\_\_\_ Other (in addition to  
\_\_\_\_ Technique or Procedure \_\_\_\_\_ primary purpose for which you made request)  
\_\_\_\_ Education

- 5) Comments:

Figure 5

UMKC Medical Library Information Consult Form

UMKC MEDICAL LIBRARY

Request Date \_\_\_\_\_

INFORMATION CONSULT

Date Needed \_\_\_\_\_

Name \_\_\_\_\_ Phone \_\_\_\_\_ Status: \_\_\_\_\_  
 Office Address \_\_\_\_\_ Student \_\_\_\_\_  
 MD (Ph.D.) \_\_\_\_\_  
 Nurse \_\_\_\_\_  
 Pharm D. \_\_\_\_\_  
 On what subject do you need information? (Be as specific as possible) Other \_\_\_\_\_

Please list any references on this subject that you know of: \_\_\_\_\_

| <u>Extent of Search</u> | <u>Language</u>  | <u>Purpose</u>                            |
|-------------------------|------------------|-------------------------------------------|
| ____ Current Year       | ____ English     | ____ Patient Care    ____ Complications   |
| ____ Last 3 Years       | ____ Other _____ | ____ Education    ____ Diagnosis          |
| ____ 1966 to Date       |                  | ____ Research    ____ Etiology            |
| ____ Other _____        | ____ Human       | ____ Presentation    ____ Physiopathology |
|                         | ____ Male        | ____ Other _____    ____ Drug Therapy     |
|                         | ____ Female      | ____ Surgery                              |
|                         |                  | ____ Therapy                              |

Other Qualifications \_\_\_\_\_

Library Use Only

Disposition:  
 Data Base \_\_\_\_\_  
 Total Citations \_\_\_\_\_  
 Given Citations \_\_\_\_\_  
 Terminal Time \_\_\_\_\_  
 Data Completed \_\_\_\_\_

Figure 6

CML Search Request Form

|                                       |  |                                   |
|---------------------------------------|--|-----------------------------------|
| <u>CML SEARCH REQUEST</u>             |  | DATE _____                        |
| REQUESTOR'S NAME _____                |  |                                   |
| SUBJECT _____                         |  |                                   |
| _____                                 |  |                                   |
| _____                                 |  |                                   |
| _____                                 |  |                                   |
| PURPOSE:                              |  | TYPE OF ARTICLE(S):               |
| <input type="checkbox"/> PATIENT CARE |  | <input type="checkbox"/> REVIEW   |
| <input type="checkbox"/> OTHER        |  | <input type="checkbox"/> SPECIFIC |

Notes

## APPENDIX A - DATA COLLECTION AND ANALYSIS

We changed the Info Systats Form #1 (See Figure 3) more than the Evaluation Form (See Figure 4). Each was improved based on the experience of the First Grant Period.

Due to the relatively low use of CML services by the nursing staff and nursing students during the First Grant Period we recorded them in the general category of "docent team member" on the new Info Systats Form #1. The category of Year 1 and 2 medical students was added in anticipation of increased use due to the increased size of these two classes. This did not prove to be true and only two transactions fell into this user category. We dropped the specific docent unit, i.e. blue, gold, green, red, as this distinction could be made by reference to the CML doing the search. Instead, we differentiated between "docent unit" or "other unit" in order to distinguish between Internal Medicine and the four other services (Surgery, Obstetrics/Gynecology, Pediatrics, and Truman Medical Center East). "Unit Members" as a grouping for other user categories was added, with specific high-use categories listed separately. We included one final grouping for "other" to cover those non-patient care searches that might be done for non-team members, such as medical school or hospital administrative personnel. The fourth "Type of Request" was changed to "non-patient care search" as we kept statistics on all literature searches performed, whether or not for direct patient care.

In order to reflect the new seven-level tree structure of Medical Subject Headings, and to describe more clearly the subjects of the information

information need developed. The smaller "CML search request" (See Figure 6) fits easily into the pocket of the white coat worn on rounds. Each morning on rounds the CMLs record basic information such as the requestor's name and the subject of the information need, the type of articles, review or specific, needed, etc. No information concerning status or affiliation, only the requestor's name and a brief statement of the information need had to be written on the abbreviated form since the CML is familiar with the team members and the patients involved. This allowed the CML to record entire search record conveniently in one place until completing the final entries in the log for on-line searching, the Form #1, and the evaluation form, if appropriate.

The revisions in the forms for gathering statistics also necessitated changes in the format used for coding the data into machine-readable form using the Statistical Package for the Social Sciences (SPSS) programs. In order to avoid the problems encountered in manipulating the statistics during the First Grant Period we separated the computer data into two sets. We coded each transaction with the same number in each file for coordination of records between the files. One set contained statistics on individual transactions: the CML's name, the user, the form of the response (bibliography, AV, textbooks, journal articles), and the evaluation responses for the package of documents given. The other data set had the source journal code for each document used and the question categories that described the subject of the information need. The CML clerk coded the data from the

1

Norman H. Nie, et al., Statistical Package for the Social Sciences, (New York: McGraw-Hill, 1975).

needed, we expanded the "Question Categories" on the Form #1. The "Supplementary Answer" section of the Form #1 was added to show when the CML gave additional information beyond copies of journal articles to the user. We collected separate data on bibliographies, textbooks, audio-visual materials, and the total number of articles given. We provided space for up to six complete bibliographic citations on the bottom of the form. These were articles actually copied and given to the user after being evaluated for pertinence by the CML. The four columns following the citations facilitated the in-house maintenance of the information system. The CML marked the ILL column when an inter-library loan was requested; the clerk checked the CDCF column after determining that the citation was or was not already in the system; the MEDLINE journal code facilitated retrieval of the unit record; and REUSE statistics determined the usefulness of citations by different CMLs for different teams. As in the past, CMLs wrote the exact search strategy used in MEDLINE or DOCLINE to retrieve the articles on the back of the Form #1.

The Evaluation Form used during the First Grant Period also underwent alterations (See Figure 4). In order to relieve some of the burden on the user, we reduced the form in size to a half page. We retained the transaction number and the date, but abbreviated the questions and reduced them in number from seven to four. The first question on the original form ("Did you want/request information on the above subject?") was dropped because the response was so overwhelmingly affirmative. (Of the 482 forms returned, only three replied "No".) Question #1 on the degree of accuracy remained as the indicator for Hypothesis I. Questions 2 and 3 were unchanged from the previous form. Since the data on whether the user would



have gone to the library for the same information was not convincing, we dropped this question as well. The final question on the new Evaluation Form concerned the use made of the information. A breakdown of the category "general patient care" resulted in more specific information: "diagnosis", "etiology", "technique or procedure", "drug therapy", and "other treatment". In addition, the categories "education", "presentation", and "other" remained on the form as possible choices. Space for comments at the bottom of the form allowed the user to voice feelings about the service.

We also changed the method by which evaluations took place. In the First Grant Period the user evaluated each individual document. However, in many transactions a package of two or more documents represented the answer to the information need. Often it was not appropriate to evaluate a single document alone. The evaluation form as revised for the Second Period asked the user to consider the package of documents as a whole. We anticipated that the response to the question on degree of completeness of the documents would increase over the First Grant Period since the "packages" were more complete than the individual documents. This proved true as the results of the survey outlined in the Results Section of this report show.

An additional form was produced to facilitate the description of information needs during morning rounds in the inpatient wards. The standard request form remained unchanged (See Figure 5). However, the CMLs found the amount of information collected on the larger form unnecessary, since the CML knows each member of the team and the situation in which the

Form #1 and the evaluation form as described in the modified SPSS Coding Format we developed (See Appendix H), and the two data sets were established. In manipulating the data we determined that certain cross-tabulations necessitated the coordination of the two data sets. For example, we could not determine which categories of information need were coordinated with each user category, i.e. how many Year 4 medical students needed information on cardiovascular diseases, etc.. To facilitate such manipulations we created a third data set by combining the first two, using the transaction number as a link.

## APPENDIX B

### COMMENTS FROM THE EVALUATION FORM

#### Comments Made by Users on the Accuracy of the CMLS' Statements of Their Information Needs

(Question #1 on the User Evaluation Form: If the subject was stated less accurately than you had in mind, please state the subject that would better define your information need.)

---

#### STATEMENTS OF THE INFORMATION NEED WRITTEN BY THE CMLS ON THE EVALUATION FORM

---

#### COMMENTS MADE BY THE USERS ON THE ACCURACY OF THE CMLS' STATEMENTS OF THE INFORMATION NEED

---

- |                                                                                                                          |                                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|
| 1.) "Dosage of propranolol before surgery"                                                                               | "Dosage of propranolol before coronary by-pass surgery"                                               |
| 2.) "Bacterial endocarditis and penicillin allergy"                                                                      | "Penicillin desensitization to the bacterial endocarditis in patient secondary to penicillin allergy" |
| 3.) "Cerebral embolism and ASD"                                                                                          | "Paradoxical cerebral embolism and ASD"                                                               |
| 4.) "IPPB complications in pulmonary emphysema"                                                                          | "Specific dangers of IPPB use"                                                                        |
| 5.) "Swan-Ganz catheters"                                                                                                | "Need to know also application of Swan-Ganz with guidelines for use"                                  |
| 6.) "Managing juvenile diabetes"                                                                                         | "Management"                                                                                          |
| 7.) "Herniation and general morbidity and mortality with use of spinal puncture in patients with brain tumor or abscess" | "Wanted more percentages (?) with herniation after (?) with brain abscess"                            |
| 8.) "Long-term danger of hepatitis antigen from mother to neonate"                                                       | "I don't know"                                                                                        |
| 9.) "Pulmonary contusion"                                                                                                | "Contusion (?) to auto accident (?)"                                                                  |
-

## APPENDIX B (CONTINUED)

### COMMENTS FROM THE EVALUATION FORM

#### General Comments from the End of the Evaluation Form

1. Only information missing was dosage and dose schedule for drugs.
2. Received article very quickly.
3. No evidences of cerebral phenomenon in this article.
4. I feel that Red I's clinical librarian has done an outstanding job.
5. Thanks!!!
6. I was amazed at how well this one article answered most all the questions I had!
7. The article was not quite specific enough as to dangers of IPPB.
8. I wanted more information about management of the Brittle Diabetic.
9. Necessary and useful at the time of delivery.
10. Thanks, Russell.
11. Very good article, although its information is occasionally different from Harrison and Robbins (Path).
12. Excellent paper - exactly what I was looking for.
13. Not current enough.
14. Lucid discussion of a point with this complication: very complete.
15. Very thoughtful of you, Steve.
16. I really enjoyed this article, and found it very helpful and pertinent. The author's only problem was (in my opinion) the inclusion of some tangential and poorly controlled studies. Thank you.
17. Thanks, Steve.
18. An excellent article on an unusual and rare entity.

19. This was #1) a fantastic article, and #2) perfect for what I wanted to know! Thank you.
20. Excellent response. Thanks.
21. Steve, thanks a bunch! These are just what I needed.
22. I thought this sampling of articles gave a good representation of indications for nephrectomy. Especially good articles were: 1) Arch Intern Med:133, 1054, and 2) Circ Res, Sup I, 36:145-52, Jun 75.
23. Jim has been a tremendous asset to my medical education, not only when I'm on medicine rotation but throughout the year. His literature searches and articles he makes available for reprint are pertinent, informative, and have been tremendously helpful in helping me understand certain topics which I'm interested in.
24. Excellent service!!
25. I asked Jim to get me this information, and five good articles were in my mail box the next day. What more could I ask for?
26. Good article, and timely.
27. Excellent service.
28. Excellent choice of articles. Very helpful. Thanks.
29. Bibliography is quite helpful.
30. Good review.
31. Excellent.
32. Good information and prompt delivery!
33. Although not all techniques reviewed were feasible for this institution, it was beneficial to learn what can be done.
34. Excellent search.
35. Good selection of papers showing variability in treatment and varying etiologies.
36. Thanks.
37. Very informative - assisted me in my patient teaching.

38. Excellent. Keep it up, Toby.
39. Very good helping resource.
40. Articles on acute asthma in pregnancy not quite as helpful.
41. Answered my question well. Thank you.
42. Library Search was very complete and follow-up with requested articles are of immense help both for preparing the three-hour clinical review conference and on-going patient care and teaching responsibilities at Jackson County Public Hospital.
43. Gets to the point being made in the lecture on hypertension. Helps provide some evidence that treatment may not be indicated for some, i.e. the elderly.
44. An excellent and timely service to the team members.
45. Well-referenced articles in regards to reported cases.
46. Would like to see the entire issue to see if it contains other classifications of drug reactions by chapters - Br J Dermatol 89, 1973. Quarterly Review.
47. This was a very specific entity, which helped.
48. Quick, accurate references for patient care.
49. How about articles #1 and #28 in the Bibliography of Lichtmann's article?
50. Right on the nose. Thanks.
51. The article in DM by Bartter was excellent as far as it relates to SIADH. However, I thought the information about ADH-secreting tumors was rather sketchy. Thank you.
52. Levinsky's article was fantastic. The article from Washington University was, I thought, poorly written, although part of the reason I didn't like it was because it was somewhat over my head.
53. July 1968 article from Surgery, Gynecology and Obstetrics by Jaffe, et. al., was by far the best.
54. All of these articles were good to excellent and had something unique to offer: (page full of comments). Thanks.
55. Excellent articles. Very helpful.



56. Very good articles. Could I get a few others that are on the list?
57. Information proved to be very useful, as well as interesting. Well-timed receipt of articles. Especially appreciate not having to request material. Thanks to J. Tchobanoff!!
58. Thanks.
59. Very good articles and prompt service.
60. Excellent service.
61. Thanks for the quick service.
62. Thank you!
63. Thank you.
64. Thanks.
65. Thank you.
66. Nephron 14:153-162, 1975 was an excellent review. Very comprehensive, with good references.
67. Very good choice.
68. Thanks.

APPENDIX C

OVERALL JOURNAL FREQUENCY LIST

| RANK | ZONE | JOURNAL TITLE                                             | ABSOLUTE<br>FREQUENCY |
|------|------|-----------------------------------------------------------|-----------------------|
| 1    | I    | New England Journal of Medicine                           | 187                   |
| 2    |      | American Journal of Obstetrics and Gynecology             | 110                   |
| 3    |      | Journal of the American Medical Association               | 94                    |
| 4    |      | Annals of Internal Medicine                               | 93                    |
| 5    |      | British Medical Journal                                   | 85                    |
| 6    |      | Lancet                                                    | 68                    |
| 7    |      | Medical Clinics of North America                          | 66                    |
| 8    |      | Obstetrics and Gynecology                                 | 64                    |
| 9    |      | American Journal of Medicine                              | 59                    |
| 10   |      | Chest                                                     | 50                    |
| 11   |      | American Journal of Surgery                               | 47                    |
| 11   |      | Postgraduate Medicine                                     | 47                    |
| 12   |      | Archives of Internal Medicine                             | 42                    |
| 13   |      | Circulation; Journal of the American Heart<br>Association | 40                    |

ZONE I contains 14 journal titles (3.4%) that produced 1,052 documents (33.3%)

|    |    |                                        |    |
|----|----|----------------------------------------|----|
| 14 | II | Cancer                                 | 39 |
| 15 |    | Southern Medical Journal               | 37 |
| 16 |    | Archives of Surgery                    | 36 |
| 17 |    | Clinical Obstetrics and Gynecology     | 35 |
| 18 |    | Medical Journal of Australia           | 34 |
| 18 |    | Pediatrics                             | 34 |
| 19 |    | American Journal of Cardiology         | 32 |
| 19 |    | Annals of Surgery                      | 32 |
| 20 |    | Surgical Clinics of North America      | 31 |
| 21 |    | American Heart Journal                 | 28 |
| 21 |    | American Review of Respiratory Disease | 28 |
| 22 |    | Gastroenterology                       | 26 |
| 22 |    | Journal of Pediatrics                  | 26 |
| 23 |    | Diabetes                               | 25 |
| 23 |    | DM; Disease-A-Month                    | 25 |
| 24 |    | American Surgeon                       | 24 |
| 24 |    | Surgery, Gynecology and Obstetrics     | 24 |
| 24 |    | Western Journal of Medicine            | 24 |
| 25 |    | British Journal of Surgery             | 23 |
| 26 |    | Canadian Medical Association Journal   | 22 |
| 27 |    | Geriatrics                             | 21 |

# Total Journal List, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                                             | ABSOLUTE<br>FREQUENCY |
|------|------|---------------------------------------------------------------------------|-----------------------|
| 28   | II   | Advances in Internal Medicine                                             | 20                    |
| 28   |      | American Family Physician                                                 | 20                    |
| 28   |      | American Journal of Nursing                                               | 20                    |
| 29   |      | New York State Journal of Medicine                                        | 19                    |
| 29   |      | Progress in Cardiovascular Diseases                                       | 19                    |
| 30   |      | American Journal of Diseases of Children                                  | 18                    |
| 30   |      | Cardiovascular Clinics                                                    | 18                    |
| 30   |      | Practitioner                                                              | 18                    |
| 31   |      | Archives of Neurology                                                     | 17                    |
| 31   |      | British Journal of Obstetrics and Gynaecology                             | 17                    |
| 31   |      | Obstetrics and Gynecology Survey                                          | 17                    |
| 31   |      | South African Medical Journal                                             | 17                    |
| 32   |      | American Journal of Gastroenterology                                      | 16                    |
| 33   |      | Mayo Clinic Proceedings                                                   | 15                    |
| 33   |      | Radiology                                                                 | 15                    |
| 34   |      | Annual Review of Medicine                                                 | 14                    |
| 34   |      | Drugs                                                                     | 14                    |
| 34   |      | Journal of Reproductive Medicine                                          | 14                    |
| 34   |      | Minnesota Medicine                                                        | 14                    |
| 35   |      | American Journal of Roentgenology, Radium Therapy<br>and Nuclear Medicine | 13                    |
| 35   |      | British Heart Journal                                                     | 13                    |
| 35   |      | Surgery                                                                   | 13                    |
| 36   |      | Current Medical Research Opinions                                         | 12                    |
| 36   |      | Journal of Neurosurgery                                                   | 12                    |
| 36   |      | Journal of Thoracic and Cardiovascular Surgery                            | 12                    |
| 36   |      | Seminars in Hematology                                                    | 12                    |

ZONE II contains 47 journal titles (11.5%) that produced 1,015 documents (32.1%)

|    |     |                                                  |    |
|----|-----|--------------------------------------------------|----|
| 37 | III | Annals of the New York Academy of Sciences       | 11 |
| 37 |     | Annals of Thoracic Surgery                       | 11 |
| 37 |     | Archives of Dermatology                          | 11 |
| 37 |     | Developmental Medicine and Child Neurology       | 11 |
| 37 |     | Journal of Clinical Endocrinology and Metabolism | 11 |
| 37 |     | Laryngoscope                                     | 11 |
| 37 |     | Metabolism                                       | 11 |
| 38 |     | American Journal of Clinical Pathology           | 10 |
| 38 |     | British Journal of Radiology                     | 10 |
| 38 |     | Journal of Laryngology and Otology               | 10 |
| 38 |     | Journal of Urology                               | 10 |
| 38 |     | Medicine (Baltimore)                             | 10 |
| 38 |     | Neurology (Minneapolis)                          | 10 |
| 38 |     | Pediatric Clinics of North America               | 10 |

# Total Journal List, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                       | ABSOLUTE<br>FREQUENCY |
|------|------|-----------------------------------------------------|-----------------------|
| 38   | III  | Radiologic Clinics of North America                 | 10                    |
| 38   |      | Urology                                             | 10                    |
| 39   |      | Acta Chirurgica Scandinavica                        | 9                     |
| 39   |      | American Journal of Hospital Pharmacy               | 9                     |
| 39   |      | American Journal of the Medical Sciences            | 9                     |
| 39   |      | Annals of Clinical Laboratory Science               | 9                     |
| 39   |      | British Journal of Venereal Diseases                | 9                     |
| 39   |      | Current Therapeutic Research                        | 9                     |
| 39   |      | Heart and Lung                                      | 9                     |
| 39   |      | Journal of Neurology, Neurosurgery and Psychiatry   | 9                     |
| 39   |      | Journal of Trauma                                   | 9                     |
| 40   |      | Acta Neurologica Scandinavica                       | 8                     |
| 40   |      | Archives of Otolaryngology                          | 8                     |
| 40   |      | British Journal of Haematology                      | 8                     |
| 40   |      | Gerontologist                                       | 8                     |
| 40   |      | Gut                                                 | 8                     |
| 40   |      | International Surgery                               | 8                     |
| 40   |      | Journal of Clinical Pathology                       | 8                     |
| 40   |      | Journal of Infectious Diseases                      | 8                     |
| 40   |      | Medical Letter on Drugs and Therapeutics            | 8                     |
| 40   |      | Nutrition Reviews                                   | 8                     |
| 40   |      | Orthopedic Clinics of North America                 | 8                     |
| 40   |      | Proceedings of the Royal Society of Medicine        | 8                     |
| 40   |      | Progress in Liver Diseases                          | 8                     |
| 41   |      | Acta Medica Scandinavica                            | 7                     |
| 41   |      | Acta Obstetricia et Gynecologica Scandinavica       | 7                     |
| 41   |      | Advances in Surgery                                 | 7                     |
| 41   |      | Annals of Otolaryngology, Rhinology and Laryngology | 7                     |
| 41   |      | Arthritis and Rheumatism                            | 7                     |
| 41   |      | Clinical Plastic Surgery                            | 7                     |
| 41   |      | Clinics in Endocrinology and Metabolism             | 7                     |
| 41   |      | Journal of Clinical Investigation                   | 7                     |
| 41   |      | Journal of the National Medical Association         | 7                     |
| 42   |      | Acta Paediatrica Scandinavica                       | 6                     |
| 42   |      | American Journal of Clinical Nutrition              | 6                     |
| 42   |      | Anesthesia and Analgesia; Current Researches        | 6                     |
| 42   |      | Archives of Disease in Childhood                    | 6                     |
| 42   |      | Cardiovascular Research                             | 6                     |
| 42   |      | Fertility and Sterility                             | 6                     |
| 42   |      | Hospitals                                           | 6                     |
| 42   |      | Johns Hopkins Medical Journal                       | 6                     |
| 42   |      | Journal of the Arkansas Medical Society             | 6                     |
| 42   |      | Obstetrics and Gynecology Annual                    | 6                     |
| 42   |      | Seminars in Drug Treatment                          | 6                     |

# Total Journal List, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                                             | ABSOLUTE<br>FREQUENCY |
|------|------|---------------------------------------------------------------------------|-----------------------|
| 43   | III  | Advances in Experimental Medicine and Biology                             | 5                     |
| 43   |      | American Journal of Psychiatry                                            | 5                     |
| 43   |      | Anaesthesia                                                               | 5                     |
| 43   |      | Annual Review of Pharmacology                                             | 5                     |
| 43   |      | Blood; Journal of Hematology                                              | 5                     |
| 43   |      | British Journal of Dermatology                                            | 5                     |
| 43   |      | Clinical Orthopaedics and Related Research                                | 5                     |
| 43   |      | Clinical Toxicology                                                       | 5                     |
| 43   |      | Danish Medical Bulletin                                                   | 5                     |
| 43   |      | Hospital Practice                                                         | 5                     |
| 43   |      | International Journal of Clinical Pharmacology,<br>Therapy and Toxicology | 5                     |
| 43   |      | Journal of the American Geriatrics Society                                | 5                     |
| 43   |      | Journal of Clinical Pharmacology and New Drugs                            | 5                     |
| 43   |      | Kidney International                                                      | 5                     |
| 43   |      | Military Medicine                                                         | 5                     |
| 43   |      | Modern Treatment                                                          | 5                     |
| 43   |      | Nephron                                                                   | 5                     |
| 43   |      | New Zealand Medical Journal                                               | 5                     |
| 43   |      | Plastic and Reconstructive Surgery                                        | 5                     |
| 43   |      | Postgraduate Medical Journal                                              | 5                     |
| 43   |      | Scandinavian Journal of Respiratory Diseases                              | 5                     |
| 43   |      | Seminars in Nuclear Medicine                                              | 5                     |
| 43   |      | Texas Medicine                                                            | 5                     |
| 44   |      | Acta Geneticae Medicae et Gemellologiae                                   | 4                     |
| 44   |      | Anesthesiology                                                            | 4                     |
| 44   |      | Angiology                                                                 | 4                     |
| 44   |      | Annals of the Rheumatic Diseases                                          | 4                     |
| 44   |      | Archives of Physical Medicine and Rehabilitation                          | 4                     |
| 44   |      | Australian and New Zealand Journal of Surgery                             | 4                     |
| 44   |      | Birth Defects                                                             | 4                     |
| 44   |      | British Journal of Anaesthesia                                            | 4                     |
| 44   |      | Clinica Chimica Acta                                                      | 4                     |
| 44   |      | Clinics in Gastroenterology                                               | 4                     |
| 44   |      | Current Problems in Surgery                                               | 4                     |
| 44   |      | Diseases of the Colon and Rectum                                          | 4                     |
| 44   |      | Journal of Surgical Research                                              | 4                     |
| 44   |      | Medical Annals of the District of Columbia                                | 4                     |
| 44   |      | Missouri Medicine                                                         | 4                     |
| 44   |      | Ohio State Medical Journal                                                | 4                     |
| 44   |      | Review of Surgery                                                         | 4                     |
| 44   |      | Scandinavian Journal of Gastroenterology                                  | 4                     |
| 44   |      | Scandinavian Journal of Urology and Nephrology                            | 4                     |
| 44   |      | Seminars in Arthritis and Rheumatism                                      | 4                     |

# Total Journal List, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                                              | ABSOLUTE<br>FREQUENCY |
|------|------|----------------------------------------------------------------------------|-----------------------|
| 44   | III  | Seminars in Oncology                                                       | 4                     |
| 44   |      | Stroke; Journal of Cerebral Circulation                                    | 4                     |
| 44   |      | Transplantation Proceedings                                                | 4                     |
| 44   |      | Urologic Clinics of North America                                          | 4                     |
| 45   |      | American Journal of Human Genetics                                         | 3                     |
| 45   |      | American Journal of Ophthalmology                                          | 3                     |
| 45   |      | American Journal of Physiology                                             | 3                     |
| 45   |      | American Journal of Public Health                                          | 3                     |
| 45   |      | American Journal of Tropical Medicine and Hygiene                          | 3                     |
| 45   |      | Antimicrobial Agents and Chemotherapy                                      | 3                     |
| 45   |      | Brain; Journal of Neurology                                                | 3                     |
| 45   |      | British Journal of Ophthalmology                                           | 3                     |
| 45   |      | British Journal of Psychiatry                                              | 3                     |
| 45   |      | Canadian Journal of Public Health                                          | 3                     |
| 45   |      | Cancer Chemotherapy Reports                                                | 3                     |
| 45   |      | Circulation Research                                                       | 3                     |
| 45   |      | Clinical Chemistry                                                         | 3                     |
| 45   |      | Clinical Notes on Respiratory Diseases                                     | 3                     |
| 45   |      | Clinical Pediatrics (Philadelphia)                                         | 3                     |
| 45   |      | Clinical Pharmacology and Therapeutics                                     | 3                     |
| 45   |      | Diseases of the Nervous System                                             | 3                     |
| 45   |      | Illinois Medical Journal                                                   | 3                     |
| 45   |      | International Journal of Fertility                                         | 3                     |
| 45   |      | Japanese Circulation Journal                                               | 3                     |
| 45   |      | Journal of the American Society of Psychosomatic<br>Dentistry and Medicine | 3                     |
| 45   |      | Journal of Bone and Joint Surgery (Am)                                     | 3                     |
| 45   |      | Journal of Chronic Diseases                                                | 3                     |
| 45   |      | Journal of Investigative Dermatology                                       | 3                     |
| 45   |      | Journal of Nuclear Medicine                                                | 3                     |
| 45   |      | JOGN Nursing                                                               | 3                     |
| 45   |      | Journal of Pediatric Surgery                                               | 3                     |
| 45   |      | Journal of Surgical Oncology                                               | 3                     |
| 45   |      | Otolaryngologic Clinics of North America                                   | 3                     |
| 45   |      | Pathology Annual                                                           | 3                     |
| 45   |      | Physical Therapy                                                           | 3                     |
| 45   |      | Proceedings of the National Cancer Conference                              | 3                     |
| 45   |      | Proceedings of the Society for Experimental<br>Biology and Medicine        | 3                     |
| 45   |      | Psychosomatics                                                             | 3                     |
| 45   |      | Quarterly Journal of Medicine                                              | 3                     |
| 45   |      | Rocky Mountain Medical Journal                                             | 3                     |
| 45   |      | Scandinavian Journal of Haematology                                        | 3                     |
| 45   |      | Scandinavian Journal of Infectious Diseases                                | 3                     |



# Total Journal List, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                                       | ABSOLUTE<br>FREQUENCY |
|------|------|---------------------------------------------------------------------|-----------------------|
| 45   | III  | Scandinavian Journal of Thoracic and<br>Cardiovascular Surgery      | 3                     |
| 45   |      | Thorax                                                              | 3                     |
| 45   |      | Virginia Medical Monthly                                            | 3                     |
| 46   |      | Acta Ophthamologica                                                 | 2                     |
| 46   |      | Acta Psychiatrica Scandinavica                                      | 2                     |
| 46   |      | Acta Radiologica; Diagnosis                                         | 2                     |
| 46   |      | Advances in Metabolic Disorders                                     | 2                     |
| 46   |      | American Journal of Medical Technology                              | 2                     |
| 46   |      | Annals of Allergy                                                   | 2                     |
| 46   |      | Applied Microbiology                                                | 2                     |
| 46   |      | Archives of General Psychiatry                                      | 2                     |
| 46   |      | Archives of Pathology                                               | 2                     |
| 46   |      | Atherosclerosis                                                     | 2                     |
| 46   |      | Australasian Radiology                                              | 2                     |
| 46   |      | Australian and New Zealand Journal of Obstetrics<br>and Gynaecology | 2                     |
| 46   |      | Biology of the Neonate                                              | 2                     |
| 46   |      | Biomedical Engineering                                              | 2                     |
| 46   |      | British Journal of Diseases of the Chest                            | 2                     |
| 46   |      | British Journal of Urology                                          | 2                     |
| 46   |      | Bulletin of the New York Academy of Medicine                        | 2                     |
| 46   |      | Canadian Anaesthetists' Society Journal                             | 2                     |
| 46   |      | Cardiology                                                          | 2                     |
| 46   |      | Cardiovascular Research Center Bulletin                             | 2                     |
| 46   |      | Cleveland Clinic Quarterly                                          | 2                     |
| 46   |      | Clinical Science                                                    | 2                     |
| 46   |      | Clinical Science and Molecular Medicine                             | 2                     |
| 46   |      | CRC Critical Reviews in Clinical Laboratory Sciences                | 2                     |
| 46   |      | CRC Critical Reviews in Clinical Toxicology                         | 2                     |
| 46   |      | Current Problems in Pediatrics                                      | 2                     |
| 46   |      | Dental Clinics of North America                                     | 2                     |
| 46   |      | Digestion                                                           | 2                     |
| 46   |      | Epilepsia                                                           | 2                     |
| 46   |      | Gerontologia Clinica                                                | 2                     |
| 46   |      | Headache                                                            | 2                     |
| 46   |      | Human Pathology                                                     | 2                     |
| 46   |      | Indian Journal of Medical Sciences                                  | 2                     |
| 46   |      | International Anesthesiology Clinics                                | 2                     |
| 46   |      | Israel Journal of Medical Sciences                                  | 2                     |
| 46   |      | Journal of the American Dental Association                          | 2                     |
| 46   |      | Journal of the American Psychoanalytic Association                  | 2                     |
| 46   |      | Journal of the Association of Physicians of India                   | 2                     |

# Total Journal List, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                                                      | ABSOLUTE<br>FREQUENCY |
|------|------|------------------------------------------------------------------------------------|-----------------------|
| 46   | III  | Journal of the Canadian Dental Association                                         | 2                     |
| 46   |      | Journal of Cardiovascular Surgery (Torino)                                         | 2                     |
| 46   |      | Journal of the Chemical Society (Perkin I)                                         | 2                     |
| 46   |      | Journal of the Indian Medical Association                                          | 2                     |
| 46   |      | Journal of the Maine Medical Association                                           | 2                     |
| 46   |      | Journal of Medical Education                                                       | 2                     |
| 46   |      | Journal of the Medical Society of New Jersey                                       | 2                     |
| 46   |      | Journal of the Neurological Sciences                                               | 2                     |
| 46   |      | Journal of Psychosomatic Research                                                  | 2                     |
| 46   |      | Journal of the Royal College of Physicians of London                               | 2                     |
| 46   |      | Journal of Studies on Alcohol                                                      | 2                     |
| 46   |      | Journal of the Tennessee Medical Association                                       | 2                     |
| 46   |      | Journal of Tropical Medicine and Hygiene                                           | 2                     |
| 46   |      | Medicine and Biology                                                               | 2                     |
| 46   |      | Medical Times                                                                      | 2                     |
| 46   |      | Modern Concepts of Cardiovascular Disease                                          | 2                     |
| 46   |      | Mount Sinai Journal of Medicine, New York                                          | 2                     |
| 46   |      | Nursing Mirror                                                                     | 2                     |
| 46   |      | Nursing Times                                                                      | 2                     |
| 46   |      | Oncology                                                                           | 2                     |
| 46   |      | Patient Care                                                                       | 2                     |
| 46   |      | Pediatric Research                                                                 | 2                     |
| 46   |      | Pharmacological Reviews                                                            | 2                     |
| 46   |      | Polish Medical Journal                                                             | 2                     |
| 46   |      | Preventive Medicine                                                                | 2                     |
| 46   |      | Proceedings of the National Academy of Sciences<br>of the United States of America | 2                     |
| 46   |      | Progress in Surgery                                                                | 2                     |
| 46   |      | Psychosomatic Medicine                                                             | 2                     |
| 46   |      | Resident and Staff Physician                                                       | 2                     |
| 46   |      | RN                                                                                 | 2                     |
| 46   |      | Scandinavian Journal of Rheumatology                                               | 2                     |
| 46   |      | Seminars in Roentgenology                                                          | 2                     |
| 46   |      | Surgery Annual                                                                     | 2                     |
| 46   |      | Surgical Forum                                                                     | 2                     |
| 46   |      | Thrombosis et Diathesis Haemorrhagica                                              | 2                     |
| 46   |      | Toxicology and Applied Pharmacology                                                | 2                     |
| 46   |      | Transactions of the American Academy of<br>Ophthalmology and Otolaryngology        | 2                     |
| 46   |      | Transactions of the Association of American<br>Physicians                          | 2                     |
| 47   |      | AANA Journal                                                                       | 1                     |

# Total Journal List, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                   | ABSOLUTE<br>FREQUENCY |
|------|------|-------------------------------------------------|-----------------------|
| 47   | III  | Acta Cardiologica                               | 1                     |
| 47   |      | Acta Clinica Belgica                            | 1                     |
| 47   |      | Acta Endocrinologica                            | 1                     |
| 47   |      | Acta Hepato-Gastroenterologica                  | 1                     |
| 47   |      | Acta Pathologica et Microbiologica Scandinavica | 1                     |
| 47   |      | Acta Pharmacologica et Toxicologica             | 1                     |
| 47   |      | Advances in Clinical Chemistry                  | 1                     |
| 47   |      | Advances in Parasitology                        | 1                     |
| 47   |      | Advances in Pediatrics                          | 1                     |
| 47   |      | American Journal of Digestive Diseases          | 1                     |
| 47   |      | American Journal of Epidemiology                | 1                     |
| 47   |      | American Journal of Occupational Therapy        | 1                     |
| 47   |      | American Journal of Pathology                   | 1                     |
| 47   |      | AORN Journal                                    | 1                     |
| 47   |      | Archives of Environmental Health                | 1                     |
| 47   |      | Archives of Ophthalmology                       | 1                     |
| 47   |      | Arizona Medicine                                | 1                     |
| 47   |      | Australian and New Zealand Journal of Medicine  | 1                     |
| 47   |      | Bibliotheca Anatomica                           | 1                     |
| 47   |      | Bibliotheca Haematologica                       | 1                     |
| 47   |      | British Journal of Addiction                    | 1                     |
| 47   |      | British Journal of Cancer                       | 1                     |
| 47   |      | British Journal of Experimental Pathology       | 1                     |
| 47   |      | British Journal of Medical Psychology           | 1                     |
| 47   |      | British Journal of Pharmacology                 | 1                     |
| 47   |      | British Journal of Plastic Surgery              | 1                     |
| 47   |      | British Medical Bulletin                        | 1                     |
| 47   |      | Bulletin of the World Health Organization       | 1                     |
| 47   |      | CA; Cancer Journal for Clinicians               | 1                     |
| 47   |      | Canadian Journal of Physiology and Pharmacology | 1                     |
| 47   |      | Canadian Journal of Surgery                     | 1                     |
| 47   |      | Canadian Psychiatric Association Journal        | 1                     |
| 47   |      | Cancer Research                                 | 1                     |
| 47   |      | Chemotherapy                                    | 1                     |
| 47   |      | Child Psychiatry and Human Development          | 1                     |
| 47   |      | Clinical Endocrinology (Oxford)                 | 1                     |
| 47   |      | Clinical Immunology and Immunopathology         | 1                     |
| 47   |      | Clinics in Developmental Medicine               | 1                     |
| 47   |      | Critical Care Medicine                          | 1                     |
| 47   |      | Dimensions of Health Service                    | 1                     |
| 47   |      | Endocrinologia Experimentalis                   | 1                     |
| 47   |      | Endocrinology                                   | 1                     |
| 47   |      | Experientia                                     | 1                     |
| 47   |      | Eye, Ear, Nose and Throat Monthly               | 1                     |

# Total Journal List, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                                                        | ABSOLUTE<br>FREQUENCY |
|------|------|--------------------------------------------------------------------------------------|-----------------------|
| 47   | III  | Federation Proceedings; Federation of American<br>Societies for Experimental Biology | 1                     |
| 47   |      | Gastrointestinal Endoscopy                                                           | 1                     |
| 47   |      | Ghana Medical Journal                                                                | 1                     |
| 47   |      | Gynecologic Oncology                                                                 | 1                     |
| 47   |      | Health Devices                                                                       | 1                     |
| 47   |      | Health Services Reports                                                              | 1                     |
| 47   |      | Indian Journal of Chest Diseases                                                     | 1                     |
| 47   |      | International Journal of Dermatology                                                 | 1                     |
| 47   |      | International Journal of Neurology                                                   | 1                     |
| 47   |      | International Urology and Nephrology                                                 | 1                     |
| 47   |      | Investigative Ophthalmology                                                          | 1                     |
| 47   |      | Irish Medical Journal                                                                | 1                     |
| 47   |      | Japanese Heart Journal                                                               | 1                     |
| 47   |      | Journal of Allergy and Clinical Immunology                                           | 1                     |
| 47   |      | Journal of the American Dietetic Association                                         | 1                     |
| 47   |      | Journal of the American Pharmaceutical Association                                   | 1                     |
| 47   |      | Journal of Bone and Joint Surgery (Br)                                               | 1                     |
| 47   |      | Journal of Cellular Physiology                                                       | 1                     |
| 47   |      | Journal of Electrocardiology                                                         | 1                     |
| 47   |      | Journal of Experimental Medicine                                                     | 1                     |
| 47   |      | Journal of Family Practice                                                           | 1                     |
| 47   |      | Journal of Immunology                                                                | 1                     |
| 47   |      | Journal of the Irish Medical Association                                             | 1                     |
| 47   |      | Journal of the Kansas Medical Society                                                | 1                     |
| 47   |      | Journal of the Louisiana State Medical Society                                       | 1                     |
| 47   |      | Journal of Laboratory and Clinical Medicine                                          | 1                     |
| 47   |      | Journal of the Lancet                                                                | 1                     |
| 47   |      | Journal of Medicine (Basel)                                                          | 1                     |
| 47   |      | Journal of the National Cancer Institute                                             | 1                     |
| 47   |      | Journal of the Oklahoma State Medical Association                                    | 1                     |
| 47   |      | Journal of Oral Surgery                                                              | 1                     |
| 47   |      | Journal of Parasitology                                                              | 1                     |
| 47   |      | Journal of Pathology                                                                 | 1                     |
| 47   |      | Journal of Pharmaceutical Sciences                                                   | 1                     |
| 47   |      | Journal of Pharmacology and Experimental<br>Therapeutics                             | 1                     |
| 47   |      | Journal of Psychiatric Nursing                                                       | 1                     |
| 47   |      | Journal of the Royal College of Surgeons of Edinburgh                                | 1                     |
| 47   |      | Journal of the South Carolina Medical Association                                    | 1                     |
| 47   |      | Medical and Biological Engineering                                                   | 1                     |
| 47   |      | Medical Care                                                                         | 1                     |
| 47   |      | Medical Record News                                                                  | 1                     |
| 47   |      | Medical World News                                                                   | 1                     |

## Total Journal List, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                                                          | ABSOLUTE<br>FREQUENCY |
|------|------|----------------------------------------------------------------------------------------|-----------------------|
| 47   | III  | Modern Nursing Home                                                                    | 1                     |
| 47   |      | Monographs in Human Genetics                                                           | 1                     |
| 47   |      | National Cancer Institute Monographs                                                   | 1                     |
| 47   |      | Nature                                                                                 | 1                     |
| 47   |      | Nebraska Medical Journal                                                               | 1                     |
| 47   |      | North Carolina Medical Journal                                                         | 1                     |
| 47   |      | Northwest Medicine                                                                     | 1                     |
| 47   |      | Nova Scotia Medical Bulletin                                                           | 1                     |
| 47   |      | Nursing                                                                                | 1                     |
| 47   |      | Nursing Outlook                                                                        | 1                     |
| 47   |      | Nutrition and Metabolism                                                               | 1                     |
| 47   |      | Ophthalmologica                                                                        | 1                     |
| 47   |      | Oral Surgery, Oral Medicine and Oral Pathology                                         | 1                     |
| 47   |      | Pennsylvania Medicine                                                                  | 1                     |
| 47   |      | Pathologia et Microbiologia                                                            | 1                     |
| 47   |      | Perspectives in Psychiatric Care                                                       | 1                     |
| 47   |      | Proceedings of the Nutrition Society                                                   | 1                     |
| 47   |      | Proceedings of the Rudolf Virchow Medical Society<br>in the City of New York           | 1                     |
| 47   |      | Progress in Biochemical Pharmacology                                                   | 1                     |
| 47   |      | Progress in Clinical Pathology                                                         | 1                     |
| 47   |      | Psychiatric Quarterly                                                                  | 1                     |
| 47   |      | Psychological Bulletin                                                                 | 1                     |
| 47   |      | Radiography                                                                            | 1                     |
| 47   |      | Rational Drug Therapy                                                                  | 1                     |
| 47   |      | Research Publications of the Association for<br>Research in Nervous and Mental Disease | 1                     |
| 47   |      | Respiration; International Review of Thoracic<br>Diseases                              | 1                     |
| 47   |      | Respiratory Care                                                                       | 1                     |
| 47   |      | Rheumatology                                                                           | 1                     |
| 47   |      | Scandinavian Journal of Clinical and Laboratory<br>Investigation                       | 1                     |
| 47   |      | South African Journal of Medical Science                                               | 1                     |
| 47   |      | SA Nursing Journal                                                                     | 1                     |
| 47   |      | Tissue Antigens                                                                        | 1                     |
| 47   |      | Transactions of the American Neurological Association                                  | 1                     |
| 47   |      | Tropical Diseases Bulletin                                                             | 1                     |
| 47   |      | Vascular Surgery                                                                       | 1                     |
| 47   |      | Vitamins and Hormones                                                                  | 1                     |
| 47   |      | Weather Vane                                                                           | 1                     |
| 47   |      | West Indian Medical Journal                                                            | 1                     |
| 47   |      | Zeitschrift fur Klinische Chemie und Klinische<br>Biochemie                            | 1                     |
| 47   |      | Zeitschrift fur Neurologie                                                             | 1                     |

---

ZONE III contains 349 journal titles (85.1%) that produced 1,094 documents (34.6%)

---



## APPENDIX D

### JOURNAL FREQUENCY LISTS BY USER GROUPS

#### Journal Frequency List for Physicians

| RANK | ZONE | JOURNAL TITLE                                 | ABSOLUTE<br>FREQUENCY |
|------|------|-----------------------------------------------|-----------------------|
| 1    | I    | American Journal of Obstetrics and Gynecology | 86                    |
| 2    |      | New England Journal of Medicine               | 71                    |
| 3    |      | Obstetrics and Gynecology                     | 41                    |
| 4    |      | British Medical Journal                       | 38                    |
| 5    |      | American Journal of Surgery                   | 32                    |
| 6    |      | Lancet                                        | 31                    |
| 7    |      | Journal of the American Medical Association   | 29                    |
| 8    |      | Annals of Internal Medicine                   | 28                    |
| 9    |      | Annals of Surgery                             | 23                    |
| 9    |      | Archives of Surgery                           | 23                    |
| 9    |      | Clinical Obstetrics and Gynecology            | 23                    |
| 10   |      | Chest                                         | 22                    |
| 11   |      | Cancer                                        | 21                    |
| 11   |      | Medical Clinics of North America              | 21                    |

ZONE I contains 14 journal titles (4.8%) that produced 489 documents (32.1%)

|    |    |                                                        |    |
|----|----|--------------------------------------------------------|----|
| 12 | II | Archives of Internal Medicine                          | 19 |
| 12 |    | Postgraduate Medicine                                  | 19 |
| 12 |    | Surgical Clinics of North America                      | 19 |
| 13 |    | Southern Medical Journal                               | 18 |
| 14 |    | British Journal of Surgery                             | 17 |
| 14 |    | Circulation; Journal of the American Heart Association | 17 |
| 14 |    | Surgery, Gynecology and Obstetrics                     | 17 |
| 15 |    | American Journal of Cardiology                         | 16 |
| 15 |    | American Journal of Medicine                           | 16 |
| 15 |    | American Surgeon                                       | 16 |
| 15 |    | Medical Journal of Australia                           | 16 |
| 16 |    | Gastroenterology                                       | 15 |
| 16 |    | Pediatrics                                             | 15 |
| 17 |    | Obstetrics and Gynecology Survey                       | 14 |
| 18 |    | American Journal of Diseases of Children               | 13 |
| 18 |    | Journal of Pediatrics                                  | 13 |
| 19 |    | Diabetes                                               | 12 |

Journals, Physicians, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                                             | ABSOLUTE<br>FREQUENCY |
|------|------|---------------------------------------------------------------------------|-----------------------|
| 20   | II   | American Review of Respiratory Disease                                    | 11                    |
| 20   |      | British Journal of Obstetrics and Gynaecology                             | 11                    |
| 20   |      | Practitioner                                                              | 11                    |
| 20   |      | Western Journal of Medicine                                               | 11                    |
| 21   |      | American Heart Journal                                                    | 10                    |
| 21   |      | American Journal of Roentgenology, Radium<br>Therapy and Nuclear Medicine | 10                    |
| 21   |      | Developmental Medicine and Child Neurology                                | 10                    |
| 21   |      | Journal of Reproductive Medicine                                          | 10                    |
| 21   |      | Radiology                                                                 | 10                    |
| 21   |      | Urology                                                                   | 10                    |
| 22   |      | American Journal of Gastroenterology                                      | 9                     |
| 22   |      | Canadian Medical Association Journal                                      | 9                     |
| 22   |      | DM; Disease-A-Month                                                       | 9                     |
| 22   |      | Journal of Clinical Endocrinology and Metabolism                          | 9                     |
| 22   |      | Progress in Cardiovascular Diseases                                       | 9                     |
| 22   |      | South African Medical Journal                                             | 9                     |
| 23   |      | Acta Chirurgica Scandinavica                                              | 8                     |
| 23   |      | Annals of Thoracic Surgery                                                | 8                     |
| 23   |      | Archives of Dermatology                                                   | 8                     |
| 23   |      | Archives of Neurology                                                     | 8                     |
| 23   |      | Geriatrics                                                                | 8                     |
| 23   |      | International Surgery                                                     | 8                     |
| 23   |      | Journal of Neurosurgery                                                   | 8                     |
| 23   |      | Mayo Clinic Proceedings                                                   | 8                     |

ZONE II contains 41 journal titles (14.1%) that produced 494 documents (32.4%)

|    |     |                                                |   |
|----|-----|------------------------------------------------|---|
| 24 | III | Archives of Otolaryngology                     | 7 |
| 24 |     | Cardiovascular Clinics                         | 7 |
| 24 |     | Current Medical Research Opinions              | 7 |
| 24 |     | Journal of Thoracic and Cardiovascular Surgery | 7 |
| 24 |     | Journal of Trauma                              | 7 |
| 24 |     | Journal of Urology                             | 7 |
| 24 |     | Laryngoscope                                   | 7 |
| 24 |     | Minnesota Medicine                             | 7 |
| 24 |     | New York State Journal of Medicine             | 7 |
| 24 |     | Pediatric Clinics of North America             | 7 |
| 24 |     | Surgery                                        | 7 |
| 25 |     | Acta Neurologica Scandinavica                  | 6 |
| 25 |     | Acta Paediatrica Scandinavica                  | 6 |
| 25 |     | American Journal of Clinical Pathology         | 6 |

Journals, Physicians, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                       | ABSOLUTE<br>FREQUENCY |
|------|------|-----------------------------------------------------|-----------------------|
| 25   | III  | Current Therapeutic Research                        | 6                     |
| 25   |      | Drugs                                               | 6                     |
| 25   |      | Neurology (Minneapolis)                             | 6                     |
| 26   |      | Acta Obstetricia et Gynecologica Scandinavica       | 5                     |
| 26   |      | American Family Physician                           | 5                     |
| 26   |      | Anesthesia and Analgesia; Current Researches        | 5                     |
| 26   |      | Annals of Clinical Laboratory Science               | 5                     |
| 26   |      | Annals of the New York Academy of Sciences          | 5                     |
| 26   |      | Annual Review of Medicine                           | 5                     |
| 26   |      | British Heart Journal                               | 5                     |
| 26   |      | Clinical Toxicology                                 | 5                     |
| 26   |      | Gut                                                 | 5                     |
| 26   |      | Journal of Infectious Diseases                      | 5                     |
| 26   |      | Journal of Laryngology and Otology                  | 5                     |
| 26   |      | Medical Letter on Drugs and Therapeutics            | 5                     |
| 27   |      | Acta Geneticae Medicae et Gemellologiae             | 4                     |
| 27   |      | Acta Medica Scandinavica                            | 4                     |
| 27   |      | Advances in Internal Medicine                       | 4                     |
| 27   |      | American Journal of Hospital Pharmacy               | 4                     |
| 27   |      | American Journal of the Medical Sciences            | 4                     |
| 27   |      | Archives of Disease in Childhood                    | 4                     |
| 27   |      | Fertility and Sterility                             | 4                     |
| 27   |      | Journal of the National Medical Association         | 4                     |
| 27   |      | Medicine (Baltimore)                                | 4                     |
| 27   |      | Obstetrics and Gynecology Annual                    | 4                     |
| 27   |      | Ohio State Medical Journal                          | 4                     |
| 27   |      | Progress in Liver Diseases                          | 4                     |
| 27   |      | Scandinavian Journal of Respiratory Diseases        | 4                     |
| 28   |      | Advances in Experimental Medicine and Biology       | 3                     |
| 28   |      | Advances in Surgery                                 | 3                     |
| 28   |      | American Journal of Human Genetics                  | 3                     |
| 28   |      | American Journal of Ophthalmology                   | 3                     |
| 28   |      | American Journal of Psychiatry                      | 3                     |
| 28   |      | Annals of Otolaryngology, Rhinology and Laryngology | 3                     |
| 28   |      | Antimicrobial Agents and Chemotherapy               | 3                     |
| 28   |      | Archives of Physical Medicine and Rehabilitation    | 3                     |
| 28   |      | Arthritis and Rheumatism                            | 3                     |
| 28   |      | Australian and New Zealand Journal of Surgery       | 3                     |
| 28   |      | Birth Defects                                       | 3                     |
| 28   |      | British Journal of Radiology                        | 3                     |
| 28   |      | British Journal of Venereal Diseases                | 3                     |
| 28   |      | Cancer Chemotherapy Reports                         | 3                     |
| 28   |      | Clinics in Endocrinology and Metabolism             | 3                     |
| 28   |      | Johns Hopkins Medical Journal                       | 3                     |

Journals, Physicians, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                                       | ABSOLUTE<br>FREQUENCY |
|------|------|---------------------------------------------------------------------|-----------------------|
| 28   | III  | Journal of the American Geriatric Society                           | 3                     |
| 28   |      | Journal of the Arkansas Medical Society                             | 3                     |
| 28   |      | Journal of Clinical Investigation                                   | 3                     |
| 28   |      | Journal of Clinical Pathology                                       | 3                     |
| 28   |      | Journal of Investigative Dermatology                                | 3                     |
| 28   |      | Journal of Pediatric Surgery                                        | 3                     |
| 28   |      | Journal of Surgical Research                                        | 3                     |
| 28   |      | Metabolism                                                          | 3                     |
| 28   |      | Orthopedic Clinics of North America                                 | 3                     |
| 28   |      | Plastic and Reconstructive Surgery                                  | 3                     |
| 28   |      | Postgraduate Medical Journal                                        | 3                     |
| 28   |      | Proceedings of the Royal Society of Medicine                        | 3                     |
| 28   |      | Radiologic Clinics of North America                                 | 3                     |
| 28   |      | Scandinavian Journal of Gastroenterology                            | 3                     |
| 28   |      | Seminars in Drug Treatment                                          | 3                     |
| 29   |      | Acta Ophthalmologica                                                | 2                     |
| 29   |      | Acta Psychiatrica Scandinavica                                      | 2                     |
| 29   |      | Acta Radiologica; Diagnosis                                         | 2                     |
| 29   |      | American Journal of Medical Technology                              | 2                     |
| 29   |      | Anesthesiology                                                      | 2                     |
| 29   |      | Angiology                                                           | 2                     |
| 29   |      | Annals of the Rheumatic Diseases                                    | 2                     |
| 29   |      | Archives of Pathology                                               | 2                     |
| 29   |      | Australasian Radiology                                              | 2                     |
| 29   |      | Australian and New Zealand Journal of Obstetrics<br>and Gynaecology | 2                     |
| 29   |      | Biology of the Neonate                                              | 2                     |
| 29   |      | British Journal of Psychiatry                                       | 2                     |
| 29   |      | Canadian Anesthetists' Society Journal                              | 2                     |
| 29   |      | Cardiovascular Research                                             | 2                     |
| 29   |      | Cardiovascular Research Center Bulletin                             | 2                     |
| 29   |      | Circulation Research                                                | 2                     |
| 29   |      | Clinica Chimica Acta                                                | 2                     |
| 29   |      | Clinical Notes on Respiratory Diseases                              | 2                     |
| 29   |      | Clinical Orthopaedics and Related Research                          | 2                     |
| 29   |      | Clinical Pediatrics (Philadelphia)                                  | 2                     |
| 29   |      | Clinical Pharmacology and Therapeutics                              | 2                     |
| 29   |      | Clinical Plastic Surgery                                            | 2                     |
| 29   |      | Clinics in Gastroenterology                                         | 2                     |
| 29   |      | Current Problems in Surgery                                         | 2                     |
| 29   |      | Danish Medical Bulletin                                             | 2                     |
| 29   |      | Diseases of the Colon and Rectum                                    | 2                     |
| 29   |      | Hospital Practice                                                   | 2                     |
| 29   |      | Illinois Medical Journal                                            | 2                     |
| 29   |      | International Journal of Fertility                                  | 2                     |

## Journals, Physicians, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                                                   | ABSOLUTE<br>FREQUENCY |
|------|------|---------------------------------------------------------------------------------|-----------------------|
| 29   | III  | Journal of the American Psychoanalytic Association                              | 2                     |
| 29   |      | Journal of Bone and Joint Surgery (Am)                                          | 2                     |
| 29   |      | Journal of Cardiovascular Surgery (Torino)                                      | 2                     |
| 29   |      | Journal of the Chemical Society (Perkin I)                                      | 2                     |
| 29   |      | Journal of the Medical Society of New Jersey                                    | 2                     |
| 29   |      | Journal of Neurology, Neurosurgery and Psychiatry                               | 2                     |
| 29   |      | Journal of Nuclear Medicine                                                     | 2                     |
| 29   |      | Medical Times                                                                   | 2                     |
| 29   |      | Military Medicine                                                               | 2                     |
| 29   |      | Modern Treatment                                                                | 2                     |
| 29   |      | Oncology                                                                        | 2                     |
| 29   |      | Otolaryngologic Clinics of North America                                        | 2                     |
| 29   |      | Pediatric Research                                                              | 2                     |
| 29   |      | Proceedings of the National Academy of Sciences of the United States of America | 2                     |
| 29   |      | Resident and Staff Physician                                                    | 2                     |
| 29   |      | Review of Surgery                                                               | 2                     |
| 29   |      | Scandinavian Journal of Infectious Diseases                                     | 2                     |
| 29   |      | Scandinavian Journal of Thoracic and Cardiovascular Surgery                     | 2                     |
| 29   |      | Scandinavian Journal of Urology and Nephrology                                  | 2                     |
| 29   |      | Seminars in Hematology                                                          | 2                     |
| 29   |      | Seminars in Nuclear Medicine                                                    | 2                     |
| 29   |      | Seminars in Oncology                                                            | 2                     |
| 29   |      | Stroke; Journal of Cerebral Circulation                                         | 2                     |
| 29   |      | Surgery Annual                                                                  | 2                     |
| 29   |      | Texas Medicine                                                                  | 2                     |
| 29   |      | Thorax                                                                          | 2                     |
| 29   |      | Thrombosis et Diathesis Haemorrhagica                                           | 2                     |
| 29   |      | Toxicology and Applied Pharmacology                                             | 2                     |
| 29   |      | Transplantation Proceedings                                                     | 2                     |
| 29   |      | Urologic Clinics of North America                                               | 2                     |
| 30   |      | Acta Clinica Belgica                                                            | 1                     |
| 30   |      | Acta Endocrinologica                                                            | 1                     |
| 30   |      | Advances in Pediatrics                                                          | 1                     |
| 30   |      | American Journal of Clinical Nutrition                                          | 1                     |
| 30   |      | American Journal of Digestive Diseases                                          | 1                     |
| 30   |      | American Journal of Epidemiology                                                | 1                     |
| 30   |      | American Journal of Pathology                                                   | 1                     |
| 30   |      | American Journal of Physiology                                                  | 1                     |
| 30   |      | American Journal of Public Health                                               | 1                     |
| 30   |      | Anaesthesia                                                                     | 1                     |
| 30   |      | Annual Review of Pharmacology                                                   | 1                     |
| 30   |      | Archives of Ophthalmology                                                       | 1                     |
| 30   |      | Arizona Medicine                                                                | 1                     |
| 30   |      | Bibliotheca Anatomica                                                           | 1                     |

Journals, Physicians, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                   | ABSOLUTE<br>FREQUENCY |
|------|------|-------------------------------------------------|-----------------------|
| 30   | III  | Biomedical Engineering                          | 1                     |
| 30   |      | Blood; Journal of Hematology                    | 1                     |
| 30   |      | Brain; Journal of Neurology                     | 1                     |
| 30   |      | British Journal of Anaesthesia                  | 1                     |
| 30   |      | British Journal of Cancer                       | 1                     |
| 30   |      | British Journal of Haematology                  | 1                     |
| 30   |      | British Journal of Medical Psychology           | 1                     |
| 30   |      | British Journal of Plastic Surgery              | 1                     |
| 30   |      | British Journal of Urology                      | 1                     |
| 30   |      | Bulletin of the New York Academy of Medicine    | 1                     |
| 30   |      | Canadian Journal of Physiology and Pharmacology | 1                     |
| 30   |      | Canadian Journal of Public Health               | 1                     |
| 30   |      | Chemotherapy                                    | 1                     |
| 30   |      | Clinical Endocrinology (Oxford)                 | 1                     |
| 30   |      | Clinical Immunology and Immunopathology         | 1                     |
| 30   |      | Clinical Science                                | 1                     |
| 30   |      | Clinical Science and Molecular Medicine         | 1                     |
| 30   |      | Clinical Developmental Medicine                 | 1                     |
| 30   |      | Current Problems in Pediatrics                  | 1                     |
| 30   |      | Dental Clinics of North America                 | 1                     |
| 30   |      | Digestion                                       | 1                     |
| 30   |      | Diseases of the Nervous System                  | 1                     |
| 30   |      | Endocrinologia Experimentalis                   | 1                     |
| 30   |      | Endocrinology                                   | 1                     |
| 30   |      | Epilepsia                                       | 1                     |
| 30   |      | Experientia                                     | 1                     |
| 30   |      | Eye, Ear, Nose and Throat Monthly               | 1                     |
| 30   |      | Gastrointestinal Endoscopy                      | 1                     |
| 30   |      | Ghana Medical Journal                           | 1                     |
| 30   |      | Gynecologic Oncology                            | 1                     |
| 30   |      | Heart and Lung                                  | 1                     |
| 30   |      | Human Pathology                                 | 1                     |
| 30   |      | Indian Journal of Chest Diseases                | 1                     |
| 30   |      | International Anesthesiology Clinics            | 1                     |
| 30   |      | Irish Medical Journal                           | 1                     |
| 30   |      | Japanese Circulation Journal                    | 1                     |
| 30   |      | Journal of Allergy and Clinical Immunology      | 1                     |
| 30   |      | Journal of the American Dental Association      | 1                     |
| 30   |      | Journal of Bone and Joint Surgery (Br)          | 1                     |
| 30   |      | Journal of Cellular Physiology                  | 1                     |
| 30   |      | Journal of Chronic Diseases                     | 1                     |
| 30   |      | Journal of Clinical Pharmacology and New Drugs  | 1                     |
| 30   |      | Journal of Electrocardiology                    | 1                     |
| 30   |      | Journal of Experimental Medicine                | 1                     |
| 30   |      | Journal of Immunology                           | 1                     |



Journals, Physicians, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                                                | ABSOLUTE<br>FREQUENCY |
|------|------|------------------------------------------------------------------------------|-----------------------|
| 30   | III  | Journal of the Indian Medical Association                                    | 1                     |
| 30   |      | Journal of the Irish Medical Association                                     | 1                     |
| 30   |      | Journal of the Lancet                                                        | 1                     |
| 30   |      | Journal of the Maine Medical Association                                     | 1                     |
| 30   |      | Journal of the National Cancer Institute                                     | 1                     |
| 30   |      | Journal of Neurological Sciences                                             | 1                     |
| 30   |      | Journal of the Oklahoma State Medical Association                            | 1                     |
| 30   |      | Journal of Pharmaceutical Sciences                                           | 1                     |
| 30   |      | Journal of Psychosomatic Research                                            | 1                     |
| 30   |      | Journal of the South Carolina Medical Association                            | 1                     |
| 30   |      | Journal of the Studies on Alcohol                                            | 1                     |
| 30   |      | Journal of the Tennessee Medical Association                                 | 1                     |
| 30   |      | Journal of Tropical Medicine and Hygiene                                     | 1                     |
| 30   |      | Kidney International                                                         | 1                     |
| 30   |      | Medical and Biological Engineering                                           | 1                     |
| 30   |      | Missouri Medicine                                                            | 1                     |
| 30   |      | Mount Sinai Journal of Medicine, New York                                    | 1                     |
| 30   |      | Nature                                                                       | 1                     |
| 30   |      | North Carolina Medical Journal                                               | 1                     |
| 30   |      | Nova Scotia Medical Bulletin                                                 | 1                     |
| 30   |      | Nursing Mirror                                                               | 1                     |
| 30   |      | Nursing Times                                                                | 1                     |
| 30   |      | Ophthalmologica                                                              | 1                     |
| 30   |      | Pathology Annual                                                             | 1                     |
| 30   |      | Pathologia et Microbiologia                                                  | 1                     |
| 30   |      | Perspectives in Psychiatric Care                                             | 1                     |
| 30   |      | Polish Medical Journal                                                       | 1                     |
| 30   |      | Proceedings of the National Cancer Conference                                | 1                     |
| 30   |      | Proceedings of the Rudolf Virchow Medical Society<br>in the City of New York | 1                     |
| 30   |      | Proceedings of the Society for Experimental<br>Biology and Medicine          | 1                     |
| 30   |      | Progress in Surgery                                                          | 1                     |
| 30   |      | Psychiatric Quarterly                                                        | 1                     |
| 30   |      | Psychological Bulletin                                                       | 1                     |
| 30   |      | Respiratory Care                                                             | 1                     |
| 30   |      | Rheumatology                                                                 | 1                     |
| 30   |      | Rocky Mountain Medical Journal                                               | 1                     |
| 30   |      | Scandinavian Journal of Clinical Laboratory<br>Investigations                | 1                     |
| 30   |      | Scandinavian Journal of Rheumatology                                         | 1                     |
| 30   |      | South African Journal of Medical Science                                     | 1                     |
| 30   |      | SA Nursing Journal                                                           | 1                     |
| 30   |      | Surgical Forum                                                               | 1                     |
| 30   |      | Tissue Antigens                                                              | 1                     |

# Journals, Physicians, Absolute Frequency

| RANK                                                                             | ZONE | JOURNAL TITLE                                                               | ABSOLUTE<br>FREQUENCY |
|----------------------------------------------------------------------------------|------|-----------------------------------------------------------------------------|-----------------------|
| 30                                                                               | III  | Transactions of the American Academy of<br>Ophthalmology and Otolaryngology | 1                     |
| 30                                                                               |      | Virginia Medical Monthly                                                    | 1                     |
| 30                                                                               |      | Zeitschrift fur Klinische Chemie und Klinische<br>Biochemie                 | 1                     |
| ZONE III contains 236 journal titles (81.1%) that produced 540 documents (35.5%) |      |                                                                             |                       |

# APPENDIX D (CONTINUED)

## JOURNAL FREQUENCY LISTS BY USER GROUPS

### Journal Frequency List for Medical Students

| RANK | ZONE | JOURNAL TITLE                                 | ABSOLUTE<br>FREQUENCY |
|------|------|-----------------------------------------------|-----------------------|
| 1    | I    | New England Journal of Medicine               | 64                    |
| 2    |      | British Medical Journal                       | 35                    |
| 3    |      | Annals of Internal Medicine                   | 34                    |
| 4    |      | Medical Clinics of North America              | 31                    |
| 5    |      | Journal of the American Medical Association   | 28                    |
| 6    |      | American Journal of Medicine                  | 23                    |
| 7    |      | American Journal of Obstetrics and Gynecology | 22                    |
| 8    |      | Postgraduate Medicine                         | 19                    |
| 9    |      | Lancet                                        | 17                    |
| 9    |      | Obstetrics and Gynecology                     | 17                    |
| 10   |      | Archives of Internal Medicine                 | 16                    |
| 10   |      | Chest                                         | 16                    |

ZONE I contains 12 journal titles (4.8%) that produced 322 documents (33.9%)

|    |    |                                                        |    |
|----|----|--------------------------------------------------------|----|
| 11 | II | Circulation; Journal of the American Heart Association | 15 |
| 12 |    | Cancer                                                 | 13 |
| 12 |    | Southern Medical Journal                               | 13 |
| 13 |    | Medical Journal of Australia                           | 12 |
| 14 |    | American Journal of Surgery                            | 11 |
| 14 |    | Western Journal of Medicine                            | 11 |
| 15 |    | American Journal of Cardiology                         | 10 |
| 15 |    | DM; Disease-A-Month                                    | 10 |
| 15 |    | Surgical Clinics of North America                      | 10 |
| 16 |    | American Family Physician                              | 9  |
| 16 |    | Archives of Surgery                                    | 9  |
| 16 |    | Canadian Medical Association Journal                   | 9  |
| 16 |    | Journal of Pediatrics                                  | 9  |
| 17 |    | American Heart Journal                                 | 8  |
| 17 |    | American Review of Respiratory Disease                 | 8  |
| 17 |    | Annals of Surgery                                      | 8  |
| 18 |    | Advances in Internal Medicine                          | 7  |
| 18 |    | Clinical Obstetrics and Gynecology                     | 7  |
| 18 |    | Diabetes                                               | 7  |

Journals, Medical Students, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                 | ABSOLUTE<br>FREQUENCY |
|------|------|-----------------------------------------------|-----------------------|
| 18   | II   | Progress in Cardiovascular Diseases           | 7                     |
| 19   |      | British Journal of Radiology                  | 6                     |
| 19   |      | Gastroenterology                              | 6                     |
| 19   |      | Mayo Clinic Proceedings                       | 6                     |
| 19   |      | Medicine (Baltimore)                          | 6                     |
| 19   |      | Minnesota Medicine                            | 6                     |
| 19   |      | New York State Journal of Medicine            | 6                     |
| 19   |      | Pediatrics                                    | 6                     |
| 20   |      | American Journal of Gastroenterology          | 5                     |
| 20   |      | Annals of the New York Academy of Sciences    | 5                     |
| 20   |      | Archives of Neurology                         | 5                     |
| 20   |      | British Journal of Haematology                | 5                     |
| 20   |      | British Journal of Obstetrics and Gynaecology | 5                     |
| 20   |      | Cardiovascular Clinics                        | 5                     |
| 20   |      | Clinical Plastic Surgery                      | 5                     |
| 20   |      | Practitioner                                  | 5                     |
| 20   |      | Proceedings of the Royal Society of Medicine  | 5                     |
| 20   |      | Radiologic Clinics of North America           | 5                     |
| 20   |      | Radiology                                     | 5                     |
| 20   |      | Seminars in Hematology                        | 5                     |

ZONE II contains 39 journal titles (15.7%) that produced 295 documents (31.1%)

|    |     |                                                                           |   |
|----|-----|---------------------------------------------------------------------------|---|
| 21 | III | Advances in Surgery                                                       | 4 |
| 21 |     | American Journal of Nursing                                               | 4 |
| 21 |     | Annals of Clinical Laboratory Science                                     | 4 |
| 21 |     | Annals of Otology, Rhinology and Laryngology                              | 4 |
| 21 |     | Annual Review of Medicine                                                 | 4 |
| 21 |     | Annual Review of Pharmacology                                             | 4 |
| 21 |     | British Heart Journal                                                     | 4 |
| 21 |     | British Journal of Surgery                                                | 4 |
| 21 |     | Geriatrics                                                                | 4 |
| 21 |     | Journal of Neurology, Neurosurgery and Psychiatry                         | 4 |
| 21 |     | Journal of Neurosurgery                                                   | 4 |
| 21 |     | Progress in Liver Diseases                                                | 4 |
| 22 |     | American Journal of Clinical Pathology                                    | 3 |
| 22 |     | American Journal of Roentgenology, Radium Therapy<br>and Nuclear Medicine | 3 |
| 22 |     | American Journal of Tropical Medicine and Hygiene                         | 3 |
| 22 |     | American Surgeon                                                          | 3 |
| 22 |     | Anaesthesia                                                               | 3 |
| 22 |     | Blood; Journal of Hematology                                              | 3 |
| 22 |     | British Journal of Anaesthesia                                            | 3 |
| 22 |     | Cardiovascular Research                                                   | 3 |

Journals, Medical Students, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                                              | ABSOLUTE<br>FREQUENCY |
|------|------|----------------------------------------------------------------------------|-----------------------|
| 22   | III  | Clinical Chemistry                                                         | 3                     |
| 22   |      | Current Therapeutic Research                                               | 3                     |
| 22   |      | Danish Medical Bulletin                                                    | 3                     |
| 22   |      | Drugs                                                                      | 3                     |
| 22   |      | Gut                                                                        | 3                     |
| 22   |      | Journal of the American Society of Psychosomatic<br>Dentistry and Medicine | 3                     |
| 22   |      | Journal of Clinical Pathology                                              | 3                     |
| 22   |      | Journal of Laryngology and Otology                                         | 3                     |
| 22   |      | Journal of the National Medical Association                                | 3                     |
| 22   |      | Journal of Reproductive Medicine                                           | 3                     |
| 22   |      | Journal of Surgical Oncology                                               | 3                     |
| 22   |      | Journal of Thoracic and Cardiovascular Surgery                             | 3                     |
| 22   |      | Kidney International                                                       | 3                     |
| 22   |      | Laryngoscope                                                               | 3                     |
| 22   |      | Medical Annals of the District of Columbia                                 | 3                     |
| 22   |      | Medical Letter on Drugs and Therapeutics                                   | 3                     |
| 22   |      | Modern Treatment                                                           | 3                     |
| 22   |      | Neurology (Minneapolis)                                                    | 3                     |
| 22   |      | New Zealand Medical Journal                                                | 3                     |
| 22   |      | Seminars in Arthritis and Rheumatism                                       | 3                     |
| 22   |      | Surgery, Gynecology and Obstetrics                                         | 3                     |
| 23   |      | Acta Medica Scandinavica                                                   | 2                     |
| 23   |      | Advances in Metabolic Disorders                                            | 2                     |
| 23   |      | American Journal of Diseases of Children                                   | 2                     |
| 23   |      | American Journal of Hospital Pharmacy                                      | 2                     |
| 23   |      | American Journal of the Medical Sciences                                   | 2                     |
| 23   |      | Annals of Allergy                                                          | 2                     |
| 23   |      | Archives of Disease in Childhood                                           | 2                     |
| 23   |      | Archives of General Psychiatry                                             | 2                     |
| 23   |      | Arthritis and Rheumatism                                                   | 2                     |
| 23   |      | Atherosclerosis                                                            | 2                     |
| 23   |      | Brain; Journal of Neurology                                                | 2                     |
| 23   |      | British Journal of Dermatology                                             | 2                     |
| 23   |      | Clinical Orthopaedics and Related Research                                 | 2                     |
| 23   |      | Clinics in Endocrinology and Metabolism                                    | 2                     |
| 23   |      | Current Medical Research Opinions                                          | 2                     |
| 23   |      | Headache                                                                   | 2                     |
| 23   |      | Heart and Lung                                                             | 2                     |
| 23   |      | Hospital Practice                                                          | 2                     |
| 23   |      | Indian Journal of Medical Sciences                                         | 2                     |
| 23   |      | Johns Hopkins Medical Journal                                              | 2                     |
| 23   |      | Journal of the Arkansas Medical Society                                    | 2                     |
| 23   |      | Journal of Infectious Diseases                                             | 2                     |
| 23   |      | Journal of Trauma                                                          | 2                     |
| 23   |      | Metabolism                                                                 | 2                     |

Journals, Medical Students, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                   | ABSOLUTE<br>FREQUENCY |
|------|------|-------------------------------------------------|-----------------------|
| 23   | III  | Nephron                                         | 2                     |
| 23   |      | Obstetrics and Gynecology Annual                | 2                     |
| 23   |      | Obstetrics and Gynecology Survey                | 2                     |
| 23   |      | Orthopedic Clinics of North America             | 2                     |
| 23   |      | Pathology Annual                                | 2                     |
| 23   |      | Pharmacological Reviews                         | 2                     |
| 23   |      | Plastic and Reconstructive Surgery              | 2                     |
| 23   |      | Psychosomatic Medicine                          | 2                     |
| 23   |      | Psychosomatics                                  | 2                     |
| 23   |      | Quarterly Journal of Medicine                   | 2                     |
| 23   |      | Scandinavian Journal of Haematology             | 2                     |
| 23   |      | Seminars in Drug Treatment                      | 2                     |
| 23   |      | Seminars in Nuclear Medicine                    | 2                     |
| 23   |      | Seminars in Roentgenology                       | 2                     |
| 23   |      | South African Medical Journal                   | 2                     |
| 23   |      | Surgery                                         | 2                     |
| 23   |      | Texas Medicine                                  | 2                     |
| 24   |      | AANA Journal                                    | 1                     |
| 24   |      | Acta Chirurgica Scandinavica                    | 1                     |
| 24   |      | Acta Hepato-Gastroenterologica                  | 1                     |
| 24   |      | Acta Neurologica Scandinavica                   | 1                     |
| 24   |      | Acta Obstetricia Gynecologica Scandinavica      | 1                     |
| 24   |      | Acta Pathologica et Microbiologica Scandinavica | 1                     |
| 24   |      | Advances in Clinical Chemistry                  | 1                     |
| 24   |      | Advances in Parasitology                        | 1                     |
| 24   |      | American Journal of Clinical Nutrition          | 1                     |
| 24   |      | American Journal of Psychiatry                  | 1                     |
| 24   |      | American Journal of Public Health               | 1                     |
| 24   |      | Anesthesia and Analgesia; Current Researches    | 1                     |
| 24   |      | Angiology                                       | 1                     |
| 24   |      | Annals of Thoracic Surgery                      | 1                     |
| 24   |      | AORN Journal                                    | 1                     |
| 24   |      | Applied Microbiology                            | 1                     |
| 24   |      | Archives of Dermatology                         | 1                     |
| 24   |      | Archives of Environmental Health                | 1                     |
| 24   |      | Australian and New Zealand Journal of Medicine  | 1                     |
| 24   |      | Australian and New Zealand Journal of Surgery   | 1                     |
| 24   |      | Bibliotheca Haematologica                       | 1                     |
| 24   |      | Biomedical Engineering                          | 1                     |
| 24   |      | British Journal of Experimental Pathology       | 1                     |
| 24   |      | British Journal of Psychiatry                   | 1                     |
| 24   |      | British Medical Bulletin                        | 1                     |
| 24   |      | Bulletin of the New York Academy of Medicine    | 1                     |
| 24   |      | Bulletin of the World Health Organization       | 1                     |
| 24   |      | CA; Cancer Journal for Clinicians               | 1                     |



Journals, Medical Students, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                           | ABSOLUTE<br>FREQUENCY |
|------|------|---------------------------------------------------------|-----------------------|
| 24   | III  | Canadian Journal of Surgery                             | 1                     |
| 24   |      | Cancer Research                                         | 1                     |
| 24   |      | Circulation Research                                    | 1                     |
| 24   |      | Cleveland Clinic Quarterly                              | 1                     |
| 24   |      | Clinical Pediatrics (Philadelphia)                      | 1                     |
| 24   |      | Clinical Science                                        | 1                     |
| 24   |      | Clinical Science and Molecular Medicine                 | 1                     |
| 24   |      | CRC Critical Reviews in Clinical Laboratory<br>Sciences | 1                     |
| 24   |      | Critical Care Medicine                                  | 1                     |
| 24   |      | Current Problems in Pediatrics                          | 1                     |
| 24   |      | Current Problems in Surgery                             | 1                     |
| 24   |      | Dental Clinics of North America                         | 1                     |
| 24   |      | Developmental Medicine and Child Neurology              | 1                     |
| 24   |      | Digestion                                               | 1                     |
| 24   |      | Dimensions of Health Service                            | 1                     |
| 24   |      | Diseases of the Colon and Rectum                        | 1                     |
| 24   |      | Fertility and Sterility                                 | 1                     |
| 24   |      | Hospitals                                               | 1                     |
| 24   |      | Illinois Medical Journal                                | 1                     |
| 24   |      | International Anesthesiology Clinics                    | 1                     |
| 24   |      | International Journal of Dermatology                    | 1                     |
| 24   |      | International Journal of Fertility                      | 1                     |
| 24   |      | International Journal of Neurology                      | 1                     |
| 24   |      | International Urology and Nephrology                    | 1                     |
| 24   |      | Investigative Ophthalmology                             | 1                     |
| 24   |      | Israel Journal of Medical Sciences                      | 1                     |
| 21   |      | Japanese Circulation Journal                            | 1                     |
| 24   |      | Japanese Heart Journal                                  | 1                     |
| 24   |      | Journal of the American Dental Association              | 1                     |
| 24   |      | Journal of the American Geriatrics Society              | 1                     |
| 24   |      | Journal of Bone and Joint Surgery (Am)                  | 1                     |
| 24   |      | Journal of Clinical Endocrinology and Metabolism        | 1                     |
| 24   |      | Journal of Clinical Investigation                       | 1                     |
| 24   |      | Journal of Family Practice                              | 1                     |
| 24   |      | Journal of the Kansas Medical Society                   | 1                     |
| 24   |      | Journal of Medicine (Basel)                             | 1                     |
| 24   |      | Journal of Medical Education                            | 1                     |
| 24   |      | Journal of Nuclear Medicine                             | 1                     |
| 24   |      | Journal of Oral Surgery                                 | 1                     |
| 24   |      | Journal of Parasitology                                 | 1                     |
| 24   |      | Journal of Pathology                                    | 1                     |
| 24   |      | Journal of Psychiatric Nursing                          | 1                     |
| 24   |      | Journal of Psychosomatic Research                       | 1                     |

Journals, Medical Students, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                                                          | ABSOLUTE<br>FREQUENCY |
|------|------|----------------------------------------------------------------------------------------|-----------------------|
| 24   | III  | Journal of the Royal College of Surgeons of<br>Edinburgh                               | 1                     |
| 24   |      | Journal of Studies on Alcohol                                                          | 1                     |
| 24   |      | Journal of Surgical Research                                                           | 1                     |
| 24   |      | Journal of Tropical Medicine and Hygiene                                               | 1                     |
| 24   |      | Journal of Urology                                                                     | 1                     |
| 24   |      | Medicine and Biology                                                                   | 1                     |
| 24   |      | Medical World News                                                                     | 1                     |
| 24   |      | Missouri Medicine                                                                      | 1                     |
| 24   |      | Modern Concepts of Cardiovascular Disease                                              | 1                     |
| 24   |      | Mount Sinai Journal of Medicine, New York                                              | 1                     |
| 24   |      | National Cancer Institute Monographs                                                   | 1                     |
| 24   |      | Nebraska Medical Journal                                                               | 1                     |
| 24   |      | Nursing Mirror                                                                         | 1                     |
| 24   |      | Nutrition Reviews                                                                      | 1                     |
| 24   |      | Otolaryngologic Clinics of North America                                               | 1                     |
| 24   |      | Pediatric Clinics of North America                                                     | 1                     |
| 24   |      | Physical Therapy                                                                       | 1                     |
| 24   |      | Polish Medical Journal                                                                 | 1                     |
| 24   |      | Postgraduate Medical Journal                                                           | 1                     |
| 24   |      | Preventive Medicine                                                                    | 1                     |
| 24   |      | Proceedings of the National Cancer Conference                                          | 1                     |
| 24   |      | Proceedings of the Nutrition Society                                                   | 1                     |
| 24   |      | Proceedings of the Society for Experimental<br>Biology and Medicine                    | 1                     |
| 24   |      | Progress in Clinical Pathology                                                         | 1                     |
| 24   |      | Progress in Surgery                                                                    | 1                     |
| 24   |      | Rational Drug Therapy                                                                  | 1                     |
| 24   |      | Research Publications of the Association for<br>Research in Nervous and Mental Disease | 1                     |
| 24   |      | Review of Surgery                                                                      | 1                     |
| 24   |      | RN                                                                                     | 1                     |
| 24   |      | Rocky Mountain Medical Journal                                                         | 1                     |
| 24   |      | Scandinavian Journal of Gastroenterology                                               | 1                     |
| 24   |      | Scandinavian Journal of Respiratory Disease                                            | 1                     |
| 24   |      | Scandinavian Journal of Rheumatology                                                   | 1                     |
| 24   |      | Scandinavian Journal of Urology and Nephrology                                         | 1                     |
| 24   |      | Stroke; Journal of Cerebral Circulation                                                | 1                     |
| 24   |      | Surgical Forum                                                                         | 1                     |
| 24   |      | Thorax                                                                                 | 1                     |
| 24   |      | Transactions of the American Academy of<br>Ophthalmology and Otolaryngology            | 1                     |
| 24   |      | Transactions of the American Neurological<br>Association                               | 1                     |

Journals, Medical Students, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE               | ABSOLUTE<br>FREQUENCY |
|------|------|-----------------------------|-----------------------|
| 24   | III  | Transplantation Proceedings | 1                     |
| 24   |      | Tropical Diseases Bulletin  | 1                     |
| 24   |      | Vascular Surgery            | 1                     |
| 24   |      | Virginia Medical Monthly    | 1                     |
| 24   |      | Vitamins and Hormones       | 1                     |

ZONE III contains 197 journal titles (79.4%) that produced 332 documents (35.0%)

# APPENDIX D (CONTINUED)

## JOURNAL FREQUENCY LISTS BY USER GROUPS

### Journal Frequency List for Other Patient Care Team Members

| RANK | ZONE | JOURNAL TITLE                               | ABSOLUTE<br>FREQUENCY |
|------|------|---------------------------------------------|-----------------------|
| 1    | I    | Journal of the American Medical Association | 26                    |
| 2    |      | New England Journal of Medicine             | 25                    |
| 3    |      | American Journal of Nursing                 | 16                    |
| 4    |      | Lancet                                      | 13                    |
| 5    |      | Pediatrics                                  | 12                    |
| 6    |      | Annals of Internal Medicine                 | 11                    |
| 7    |      | American Journal of Medicine                | 8                     |
| 7    |      | Chest                                       | 8                     |
| 7    |      | Gerontologist                               | 8                     |

ZONE I contains 9 journal titles (6.6%) that produced 127 documents (34.2%)

|    |    |                                                        |   |
|----|----|--------------------------------------------------------|---|
| 8  | II | British Medical Journal                                | 7 |
| 8  |    | Nutrition Review                                       | 7 |
| 9  |    | New York State Journal of Medicine                     | 6 |
| 9  |    | Obstetrics and Gynecology                              | 6 |
| 10 |    | Archives of Internal Medicine                          | 5 |
| 10 |    | Geriatrics                                             | 5 |
| 10 |    | International Journal of Clinical Pharmacology         | 5 |
| 11 |    | American Family Physician                              | 4 |
| 11 |    | American Journal of Clinical Nutrition                 | 4 |
| 11 |    | Cancer                                                 | 4 |
| 11 |    | Cardiovascular Clinics                                 | 4 |
| 11 |    | Circulation; Journal of the American Heart Association | 4 |
| 11 |    | Clinical Obstetrics and Gynecology                     | 4 |
| 11 |    | DM; Disease-A-Month                                    | 4 |
| 11 |    | Drugs                                                  | 4 |
| 11 |    | Medical Clinics of North America                       | 4 |
| 11 |    | Postgraduate Medicine                                  | 4 |
| 11 |    | Seminars in Hematology                                 | 4 |
| 11 |    | Southern Medical Journal                               | 4 |
| 12 |    | Advances in Internal Medicine                          | 3 |
| 12 |    | American Heart Journal                                 | 3 |
| 12 |    | American Journal of Cardiology                         | 3 |

Journals, Other Patient Care, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                        | ABSOLUTE<br>FREQUENCY |
|------|------|--------------------------------------|-----------------------|
| 12   | II   | British Journal of Dermatology       | 3                     |
| 12   |      | British Journal of Venereal Diseases | 3                     |
| 12   |      | Canadian Medical Association Journal | 3                     |
| 12   |      | Gastroenterology                     | 3                     |
| 12   |      | Heart and Lung                       | 3                     |
| 12   |      | Journal of Clinical Pharmacology     | 3                     |
| 12   |      | JOGN Nursing                         | 3                     |
| 12   |      | Medical Journal of Australia         | 3                     |

ZONE II contains 30 journal titles (21.9%) that produced 122 documents (32.9%)

|    |     |                                                   |   |
|----|-----|---------------------------------------------------|---|
| 13 | III | American Journal of Obstetrics and Gynecology     | 2 |
| 13 |     | American Surgeon                                  | 2 |
| 13 |     | Anesthesiology                                    | 2 |
| 13 |     | Archives of Dermatology                           | 2 |
| 13 |     | Archives of Neurology                             | 2 |
| 13 |     | British Heart Journal                             | 2 |
| 13 |     | British Journal of Diseases of the Chest          | 2 |
| 13 |     | Cardiology                                        | 2 |
| 13 |     | Clinica Chimica Acta                              | 2 |
| 13 |     | Clinical Gastroenterology                         | 2 |
| 13 |     | CRC Critical Review of Toxicology                 | 2 |
| 13 |     | Current Medical Research Opinions                 | 2 |
| 13 |     | Hospitals                                         | 2 |
| 13 |     | Journal of the Association of Physicians of India | 2 |
| 13 |     | Journal of the Canadian Dental Association        | 2 |
| 13 |     | Journal of Pediatrics                             | 2 |
| 13 |     | Journal of the Royal College of Physicians        | 2 |
| 13 |     | Military Medicine                                 | 2 |
| 13 |     | Nephron                                           | 2 |
| 13 |     | Patient Care                                      | 2 |
| 13 |     | Seminars in Oncology                              | 2 |
| 13 |     | South African Medical Journal                     | 2 |
| 13 |     | Surgery                                           | 2 |
| 13 |     | Surgery, Gynecology and Obstetrics                | 2 |
| 14 |     | Acta Cardiologica (Bruxelles)                     | 1 |
| 14 |     | Acta Neurologica Scandinavica                     | 1 |
| 14 |     | Acta Pharmacologica et Toxicologica               | 1 |
| 14 |     | American Journal of Diseases of Children          | 1 |
| 14 |     | American Journal of Hospital Pharmacy             | 1 |
| 14 |     | American Journal of Medical Science               | 1 |
| 14 |     | American Journal of Occupational Therapy          | 1 |
| 14 |     | American Journal of Physiology                    | 1 |

Journals, Other Patient Care, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                            | ABSOLUTE<br>FREQUENCY |
|------|------|----------------------------------------------------------|-----------------------|
| 14   | III  | American Journal of Public Health                        | 1                     |
| 14   |      | American Review of Respiratory Disease                   | 1                     |
| 14   |      | Anaesthesia                                              | 1                     |
| 14   |      | Angiology                                                | 1                     |
| 14   |      | Annals of Rheumatic Diseases                             | 1                     |
| 14   |      | Annual Review of Medicine                                | 1                     |
| 14   |      | Archives of Physical Medicine and Rehabilitation         | 1                     |
| 14   |      | Archives of Surgery                                      | 1                     |
| 14   |      | Arthritis and Rheumatism                                 | 1                     |
| 14   |      | British Journal of Addiction                             | 1                     |
| 14   |      | British Journal of Obstetrics and Gynaecology            | 1                     |
| 14   |      | British Journal of Pharmacology                          | 1                     |
| 14   |      | Canadian Journal of Public Health                        | 1                     |
| 14   |      | Canadian Psychiatric Association                         | 1                     |
| 14   |      | Cardiovascular Research                                  | 1                     |
| 14   |      | Child Psychiatry and Human Development                   | 1                     |
| 14   |      | Clinical Notes on Respiratory Diseases                   | 1                     |
| 14   |      | Clinical Pharmacology and Therapeutics                   | 1                     |
| 14   |      | Clinical Endocrinology and Metabolism                    | 1                     |
| 14   |      | Diabetes                                                 | 1                     |
| 14   |      | Fertility and Sterility                                  | 1                     |
| 14   |      | Health Devices                                           | 1                     |
| 14   |      | Health Service Reports                                   | 1                     |
| 14   |      | Human Pathology                                          | 1                     |
| 14   |      | Journal of the American Dietetic Association             | 1                     |
| 14   |      | Journal of the American Geriatric Society                | 1                     |
| 14   |      | Journal of Chronic Diseases                              | 1                     |
| 14   |      | Journal of Clinical Investigations                       | 1                     |
| 14   |      | Journal of Clinical Pathology                            | 1                     |
| 14   |      | Journal of Infectious Diseases                           | 1                     |
| 14   |      | Journal of the Louisiana State Medical Society           | 1                     |
| 14   |      | Journal of Laboratory and Clinical Medicine              | 1                     |
| 14   |      | Journal of Medical Education                             | 1                     |
| 14   |      | Journal of Pharmacology and Experimental<br>Therapeutics | 1                     |
| 14   |      | Journal of Reproductive Medicine                         | 1                     |
| 14   |      | Journal of Urology                                       | 1                     |
| 14   |      | Medical Biology                                          | 1                     |
| 14   |      | Medical Care                                             | 1                     |
| 14   |      | Medical Record News                                      | 1                     |
| 14   |      | Metabolism                                               | 1                     |
| 14   |      | Modern Concepts of Cardiovascular Research               | 1                     |
| 14   |      | Monographs of Human Genetics                             | 1                     |
| 14   |      | Northwest Medicine                                       | 1                     |



Journals, Other Patient Care, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                             | ABSOLUTE<br>FREQUENCY |
|------|------|-----------------------------------------------------------|-----------------------|
| 14   | III  | Nursing                                                   | 1                     |
| 14   |      | Nursing Outlook                                           | 1                     |
| 14   |      | Nursing Times                                             | 1                     |
| 14   |      | Nutrition and Metabolism                                  | 1                     |
| 14   |      | Obstetrics and Gynecology Survey                          | 1                     |
| 14   |      | Oral Surgery                                              | 1                     |
| 14   |      | Orthopedic Clinics of North America                       | 1                     |
| 14   |      | Pediatric Clinics of North America                        | 1                     |
| 14   |      | Physical Therapy                                          | 1                     |
| 14   |      | Postgraduate Medical Journal                              | 1                     |
| 14   |      | Practitioner                                              | 1                     |
| 14   |      | Preventive Medicine                                       | 1                     |
| 14   |      | Psychosomatics                                            | 1                     |
| 14   |      | Quarterly Journal of Medicine                             | 1                     |
| 14   |      | RN                                                        | 1                     |
| 14   |      | Scandinavian Journal of Haematology                       | 1                     |
| 14   |      | Seminars in Drug Treatment                                | 1                     |
| 14   |      | Stroke; Journal of Cerebral Circulation                   | 1                     |
| 14   |      | Texas Medicine                                            | 1                     |
| 14   |      | Transactions of the Association of American<br>Physicians | 1                     |
| 14   |      | Weather Vane                                              | 1                     |
| 14   |      | West Indian Medical Journal                               | 1                     |
| 14   |      | Western Journal of Medicine                               | 1                     |

ZONE III contains 98 journal titles (71.5%) that produced 122 documents (32.9%)

## APPENDIX D (CONTINUED)

JOURNAL FREQUENCY LISTS BY USER GROUPSJournal Frequency List for Team-Unit

| RANK | ZONE | JOURNAL TITLE                               | ABSOLUTE<br>FREQUENCY |
|------|------|---------------------------------------------|-----------------------|
| 1    | I    | New England Journal of Medicine             | 27                    |
| 2    |      | Annals of Internal Medicine                 | 19                    |
| 3    |      | American Journal of Medicine                | 12                    |
| 4    |      | Journal of the American Medical Association | 11                    |
| 5    |      | Medical Clinics of North America            | 10                    |
| 6    |      | American Review of Respiratory Disease      | 7                     |
| 7    |      | Advances in Internal Medicine               | 6                     |

ZONE I contains 7 journal titles (5.5%) that produced 92 documents (31.7%)

|    |    |                                                        |   |
|----|----|--------------------------------------------------------|---|
| 8  | II | American Heart Journal                                 | 5 |
| 8  |    | British Medical Journal                                | 5 |
| 8  |    | Diabetes                                               | 5 |
| 8  |    | Lancet                                                 | 5 |
| 8  |    | Metabolism                                             | 5 |
| 8  |    | Postgraduate Medicine                                  | 5 |
| 9  |    | American Journal of Surgery                            | 4 |
| 9  |    | Annual Review of Medicine                              | 4 |
| 9  |    | Chest                                                  | 4 |
| 9  |    | Circulation; Journal of the American Heart Association | 4 |
| 10 |    | American Journal of Cardiology                         | 3 |
| 10 |    | American Surgeon                                       | 3 |
| 10 |    | Archives of Surgery                                    | 3 |
| 10 |    | British Journal of Venereal Diseases                   | 3 |
| 10 |    | Geriatrics                                             | 3 |
| 10 |    | Journal of Neurology, Neurosurgery and Psychiatry      | 3 |
| 10 |    | Progress in Cardiovascular Diseases                    | 3 |

ZONE II contains 17 journal titles (13.5%) that produced 67 documents (23.1%)

|    |     |                                               |   |
|----|-----|-----------------------------------------------|---|
| 11 | III | Advances in Experimental Medicine and Biology | 2 |
| 11 |     | American Family Physician                     | 2 |
| 11 |     | American Journal of Gastroenterology          | 2 |

Journals, Team-Unit, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                  | ABSOLUTE<br>FREQUENCY |
|------|------|------------------------------------------------|-----------------------|
| 11   | III  | American Journal of Medical Science            | 2                     |
| 11   |      | Annals of Thoracic Surgery                     | 2                     |
| 11   |      | Archives of Internal Medicine                  | 2                     |
| 11   |      | Archives of Neurology                          | 2                     |
| 11   |      | British Heart Journal                          | 2                     |
| 11   |      | British Journal of Haematology                 | 2                     |
| 11   |      | British Journal of Ophthalmology               | 2                     |
| 11   |      | British Journal of Surgery                     | 2                     |
| 11   |      | Cardiovascular Clinics                         | 2                     |
| 11   |      | Diseases of the Nervous System                 | 2                     |
| 11   |      | DM; Disease-A-Month                            | 2                     |
| 11   |      | Gastroenterology                               | 2                     |
| 11   |      | Heart and Lung                                 | 2                     |
| 11   |      | Journal of Clinical Investigation              | 2                     |
| 11   |      | Journal of Pediatrics                          | 2                     |
| 11   |      | Journal of Thoracic and Cardiovascular Surgery | 2                     |
| 11   |      | Medical Journal of Australia                   | 2                     |
| 11   |      | New Zealand Medical Journal                    | 2                     |
| 11   |      | Orthopedic Clinics of North America            | 2                     |
| 11   |      | Radiologic Clinics of North America            | 2                     |
| 11   |      | South African Medical Journal                  | 2                     |
| 11   |      | Southern Medical Journal                       | 2                     |
| 11   |      | Surgery                                        | 2                     |
| 11   |      | Surgery, Gynecology and Obstetrics             | 2                     |
| 11   |      | Surgical Clinics of North America              | 2                     |
| 11   |      | Urologic Clinics of North America              | 2                     |
| 12   |      | Acta Obstetricia et Gynecologica Scandinavica  | 1                     |
| 12   |      | American Journal of Diseases of Children       | 1                     |
| 12   |      | American Journal of Hospital Pharmacy          | 1                     |
| 12   |      | American Journal of Physiology                 | 1                     |
| 12   |      | American Journal of Psychiatry                 | 1                     |
| 12   |      | Annals of the New York Academy of Sciences     | 1                     |
| 12   |      | Annals of the Rheumatic Diseases               | 1                     |
| 12   |      | Annals of Surgery                              | 1                     |
| 12   |      | Applied Microbiology                           | 1                     |
| 12   |      | Archives of Otolaryngology                     | 1                     |
| 12   |      | Arthritis and Rheumatism                       | 1                     |
| 12   |      | Birth Defects                                  | 1                     |
| 12   |      | Blood; Journal of Hematology                   | 1                     |
| 12   |      | British Journal of Radiology                   | 1                     |
| 12   |      | British Journal of Urology                     | 1                     |
| 12   |      | Canadian Journal of Public Health              | 1                     |
| 12   |      | Cancer                                         | 1                     |
| 12   |      | Cleveland Clinic Quarterly                     | 1                     |

Journals, Team-Unit, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                                                        | ABSOLUTE<br>FREQUENCY |
|------|------|--------------------------------------------------------------------------------------|-----------------------|
| 12   | III  | Clinical Obstetrics and Gynecology                                                   | 1                     |
| 12   |      | Clinical Orthopaedics and Related Research                                           | 1                     |
| 12   |      | Clinics in Endocrinology and Metabolism                                              | 1                     |
| 12   |      | Current Medical Research Opinions                                                    | 1                     |
| 12   |      | Current Problems in Surgery                                                          | 1                     |
| 12   |      | Diseases of the Colon and Rectum                                                     | 1                     |
| 12   |      | Drugs                                                                                | 1                     |
| 12   |      | Epilepsia                                                                            | 1                     |
| 12   |      | Federation Proceedings; Federation of American<br>Societies for Experimental Biology | 1                     |
| 12   |      | Hospital Practice                                                                    | 1                     |
| 12   |      | Israel Journal of Medical Sciences                                                   | 1                     |
| 12   |      | Japanese Circulation Journal                                                         | 1                     |
| 12   |      | Johns Hopkins Medical Journal                                                        | 1                     |
| 12   |      | Journal of the American Pharmaceutical Association                                   | 1                     |
| 12   |      | Journal of the Arkansas Medical Society                                              | 1                     |
| 12   |      | Journal of Chronic Diseases                                                          | 1                     |
| 12   |      | Journal of Clinical Endocrinology and Metabolism                                     | 1                     |
| 12   |      | Journal of Clinical Pathology                                                        | 1                     |
| 12   |      | Journal of Clinical Pharmacology                                                     | 1                     |
| 12   |      | Journal of the Indian Medical Association                                            | 1                     |
| 12   |      | Journal of Laryngology and Otology                                                   | 1                     |
| 12   |      | Journal of the Maine Medical Association                                             | 1                     |
| 12   |      | Journal of the Neurological Sciences                                                 | 1                     |
| 12   |      | Journal of the Tennessee Medical Association                                         | 1                     |
| 12   |      | Journal of Urology                                                                   | 1                     |
| 12   |      | Kidney International                                                                 | 1                     |
| 12   |      | Laryngoscope                                                                         | 1                     |
| 12   |      | Mayo Clinic Proceedings                                                              | 1                     |
| 12   |      | Medical Annals of the District of Columbia                                           | 1                     |
| 12   |      | Military Medicine                                                                    | 1                     |
| 12   |      | Minnesota Medicine                                                                   | 1                     |
| 12   |      | Missouri Medicine                                                                    | 1                     |
| 12   |      | Nephron                                                                              | 1                     |
| 12   |      | Neurology (Minneapolis)                                                              | 1                     |
| 12   |      | Pennsylvania Medicine                                                                | 1                     |
| 12   |      | Pediatric Clinics of North America                                                   | 1                     |
| 12   |      | Pediatrics                                                                           | 1                     |
| 12   |      | Practitioner                                                                         | 1                     |
| 12   |      | Proceedings of the National Cancer Conference                                        | 1                     |
| 12   |      | Proceedings of the Society for Experimental<br>Biology and Medicine                  | 1                     |
| 12   |      | Progress in Biochemical Pharmacology                                                 | 1                     |
| 12   |      | Radiography                                                                          | 1                     |

Journals, Team-Unit, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                                  | ABSOLUTE<br>FREQUENCY |
|------|------|----------------------------------------------------------------|-----------------------|
| 12   | III  | Respiration                                                    | 1                     |
| 12   |      | Review of Surgery                                              | 1                     |
| 12   |      | Rocky Mountain Medical Journal                                 | 1                     |
| 12   |      | Scandinavian Journal of Thoracic and Cardiovascular<br>Surgery | 1                     |
| 12   |      | Scandinavian Journal of Urology and Nephrology                 | 1                     |
| 12   |      | Seminars in Arthritis and Rheumatism                           | 1                     |
| 12   |      | Seminars in Hematology                                         | 1                     |
| 12   |      | Seminars in Nuclear Medicine                                   | 1                     |
| 12   |      | Transactions of the Association of American<br>Physicians      | 1                     |
| 12   |      | Transplantation Proceedings                                    | 1                     |
| 12   |      | Virginia Medical Monthly                                       | 1                     |
| 12   |      | Western Journal of Medicine                                    | 1                     |
| 12   |      | Zeitschrift fur Neurologie                                     | 1                     |

ZONE III contains 102 journal titles (80.9%) that produced 136 documents (45.2%)

# APPENDIX E

## JOURNAL FREQUENCY LISTS BY BROAD SUBJECT AREAS

### Journal Frequency List for Cardiovascular Diseases

| RANK | ZONE | JOURNAL TITLE                                          | ABSOLUTE<br>FREQUENCY |
|------|------|--------------------------------------------------------|-----------------------|
| 1    | I    | New England Journal of Medicine                        | 39                    |
| 2    |      | Circulation; Journal of the American Heart Association | 32                    |
| 3    |      | American Journal of Cardiology                         | 28                    |
| 4    |      | American Heart Journal                                 | 21                    |
| 5    |      | Chest                                                  | 19                    |
| 6    |      | British Medical Journal                                | 17                    |
| 7    |      | Archives of Surgery                                    | 15                    |
| 7    |      | Journal of the American Medical Association            | 15                    |

ZONE I contains 8 journal titles (5.3%) that produced 186 documents (33.6%)

|    |    |                                                                        |    |
|----|----|------------------------------------------------------------------------|----|
| 8  | II | Annals of Internal Medicine                                            | 14 |
| 8  |    | Medical Clinics of North America                                       | 14 |
| 9  |    | Cardiovascular Clinics                                                 | 13 |
| 10 |    | Progress in Cardiovascular Diseases                                    | 12 |
| 11 |    | American Journal of Obstetrics and Gynecology                          | 10 |
| 11 |    | Annals of Surgery                                                      | 10 |
| 11 |    | British Heart Journal                                                  | 10 |
| 12 |    | Obstetrics and Gynecology                                              | 9  |
| 13 |    | American Journal of Medicine                                           | 8  |
| 13 |    | American Journal of Surgery                                            | 8  |
| 13 |    | Archives of Internal Medicine                                          | 8  |
| 13 |    | Lancet                                                                 | 8  |
| 14 |    | Medical Journal of Australia                                           | 7  |
| 14 |    | New York State Journal of Medicine                                     | 7  |
| 15 |    | Geriatrics                                                             | 6  |
| 15 |    | Postgraduate Medicine                                                  | 6  |
| 15 |    | Surgery                                                                | 6  |
| 15 |    | Western Journal of Medicine                                            | 6  |
| 16 |    | Cardiovascular Research                                                | 5  |
| 16 |    | Clinical Obstetrics and Gynecology                                     | 5  |
| 16 |    | Oil; Disease-A-Month                                                   | 5  |
| 16 |    | International Journal of Clinical Pharmacology, Therapy and Toxicology | 5  |
| 16 |    | Surgery, Gynecology and Obstetrics                                     | 5  |
| 16 |    | Surgical Clinics of North America                                      | 5  |

ZONE II contains 24 journal titles (15.8%) that produced 192 documents (34.7%)



Journals, Cardiovascular Diseases, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                   | ABSOLUTE<br>FREQUENCY |
|------|------|-------------------------------------------------|-----------------------|
| 17   | III  | American Journal of Nursing                     | 4                     |
| 17   |      | Annals of Thoracic Surgery                      | 4                     |
| 17   |      | Diabetes                                        | 4                     |
| 17   |      | Heart and Lung                                  | 4                     |
| 17   |      | Journal of Thoracic and Cardiovascular Surgery  | 4                     |
| 17   |      | Neurology (Minneapolis)                         | 4                     |
| 18   |      | Annual Review of Medicine                       | 3                     |
| 18   |      | British Journal of Surgery                      | 3                     |
| 18   |      | Current Therapeutic Research                    | 3                     |
| 18   |      | Drugs                                           | 3                     |
| 18   |      | Japanese Circulation Journal                    | 3                     |
| 18   |      | Mayo Clinic Proceedings                         | 3                     |
| 18   |      | Southern Medical Journal                        | 3                     |
| 18   |      | Stroke ; Journal of Cerebral Circulation        | 3                     |
| 19   |      | American Family Physician                       | 2                     |
| 19   |      | American Journal of the Medical Sciences        | 2                     |
| 19   |      | American Surgeon                                | 2                     |
| 19   |      | Anesthesia and Analgesia; Current Researches    | 2                     |
| 19   |      | Angiology                                       | 2                     |
| 19   |      | Archives of Neurology                           | 2                     |
| 19   |      | Biomedical Engineering                          | 2                     |
| 19   |      | Blood ; Journal of Hematology                   | 2                     |
| 19   |      | Current Problems in Surgery                     | 2                     |
| 19   |      | Journal of Cardiovascular Surgery (Torino)      | 2                     |
| 19   |      | Journal of the National Medical Association     | 2                     |
| 19   |      | Journal of Neurosurgery                         | 2                     |
| 19   |      | Journal of Psychosomatic Research               | 2                     |
| 19   |      | Journal of Reproductive Medicine                | 2                     |
| 19   |      | Medical Letter on Drugs and Therapeutics        | 2                     |
| 19   |      | Medicine (Baltimore)                            | 2                     |
| 19   |      | Modern Concepts of Cardiovascular Disease       | 2                     |
| 19   |      | Postgraduate Medical Journal                    | 2                     |
| 19   |      | Radiologic Clinics of North America             | 2                     |
| 19   |      | RN                                              | 2                     |
| 19   |      | Scandinavian Journal of Haematology             | 2                     |
| 19   |      | South African Medical Journal                   | 2                     |
| 20   |      | AANA Journal                                    | 1                     |
| 20   |      | Acta Chirurgica Scandinavica                    | 1                     |
| 20   |      | Acta Medica Scandinavica                        | 1                     |
| 20   |      | Acta Neurologica Scandinavica                   | 1                     |
| 20   |      | Acta Pathologica et Microbiologica Scandinavica | 1                     |
| 20   |      | Advances in Experimental Medicine and Biology   | 1                     |
| 20   |      | Advances in Internal Medicine                   | 1                     |

# Journals, Cardiovascular Diseases, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                                             | ABSOLUTE<br>FREQUENCY |
|------|------|---------------------------------------------------------------------------|-----------------------|
| 20   | III  | American Journal of Clinical Nutrition                                    | 1                     |
| 20   |      | American Journal of Diseases of Children                                  | 1                     |
| 20   |      | American Journal of Gastroenterology                                      | 1                     |
| 20   |      | American Journal of Hospital Pharmacy                                     | 1                     |
| 20   |      | American Journal of Occupational Therapy                                  | 1                     |
| 20   |      | American Journal of Pathology                                             | 1                     |
| 20   |      | American Journal of Physiology                                            | 1                     |
| 20   |      | American Journal of Public Health                                         | 1                     |
| 20   |      | American Journal of Roentgenology, Radium Therapy<br>and Nuclear Medicine | 1                     |
| 20   |      | American Review of Respiratory Diseases                                   | 1                     |
| 20   |      | Annals of Allergy                                                         | 1                     |
| 20   |      | Annals of the New York Academy of Sciences                                | 1                     |
| 20   |      | Annals of the Rheumatic Diseases                                          | 1                     |
| 20   |      | Archives of Dermatology                                                   | 1                     |
| 20   |      | Archives of Disease in Childhood                                          | 1                     |
| 20   |      | Archives of Pathology                                                     | 1                     |
| 20   |      | Archives of Physical Medicine and Rehabilitation                          | 1                     |
| 20   |      | Arthritis and Rheumatism                                                  | 1                     |
| 20   |      | Atherosclerosis                                                           | 1                     |
| 20   |      | Australian and New Zealand Journal of Surgery                             | 1                     |
| 20   |      | Brain; Journal of Neurology                                               | 1                     |
| 20   |      | British Journal of Medical Psychology                                     | 1                     |
| 20   |      | British Journal of Obstetrics and Gynecology                              | 1                     |
| 20   |      | British Journal of Radiology                                              | 1                     |
| 20   |      | British Medical Bulletin                                                  | 1                     |
| 20   |      | CA; Cancer Journal for Clinicians                                         | 1                     |
| 20   |      | Canadian Medical Association Journal                                      | 1                     |
| 20   |      | Cardiology                                                                | 1                     |
| 20   |      | Circulation Research                                                      | 1                     |
| 20   |      | Clinical Orthopaedics and Related Research                                | 1                     |
| 20   |      | Clinical Pharmacology and Therapeutics                                    | 1                     |
| 20   |      | Clinical Science                                                          | 1                     |
| 20   |      | Clinical Science and Molecular Medicine                                   | 1                     |
| 20   |      | Current Medical Research Opinions                                         | 1                     |
| 20   |      | Digestion                                                                 | 1                     |
| 20   |      | Gastroenterology                                                          | 1                     |
| 20   |      | Gut                                                                       | 1                     |
| 20   |      | Headache                                                                  | 1                     |
| 20   |      | Hospital Practice                                                         | 1                     |
| 20   |      | Human Pathology                                                           | 1                     |
| 20   |      | Illinois Medical Journal                                                  | 1                     |
| 20   |      | International Anesthesiology Clinics                                      | 1                     |
| 20   |      | International Urology and Nephrology                                      | 1                     |
| 20   |      | Israel Journal of Medical Sciences                                        | 1                     |
| 20   |      | Japanese Heart Journal                                                    | 1                     |

Journals, Cardiovascular Diseases, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                                               | ABSOLUTE<br>FREQUENCY |
|------|------|-----------------------------------------------------------------------------|-----------------------|
| 20   | III  | Journal of the American Pharmaceutical Association                          | 1                     |
| 20   |      | Journal of the Arkansas Medical Society                                     | 1                     |
| 20   |      | Journal of Bone and Joint Surgery (Am)                                      | 1                     |
| 20   |      | Journal of Clinical Investigation                                           | 1                     |
| 20   |      | Journal of Clinical Pathology                                               | 1                     |
| 20   |      | Journal of Electrocardiology                                                | 1                     |
| 20   |      | Journal of Medicine (Basel)                                                 | 1                     |
| 20   |      | Journal of Neurology, Neurosurgery and Psychiatry                           | 1                     |
| 20   |      | Journal of the Neurological Sciences                                        | 1                     |
| 20   |      | Journal of Nuclear Medicine                                                 | 1                     |
| 20   |      | Journal of Pharmacology and Experimental<br>Therapeutics                    | 1                     |
| 20   |      | Journal of Surgical Research                                                | 1                     |
| 20   |      | Journal of Trauma                                                           | 1                     |
| 20   |      | Kidney International                                                        | 1                     |
| 20   |      | Medical Annals of the District of Columbia                                  | 1                     |
| 20   |      | Medical and Biological Engineering                                          | 1                     |
| 20   |      | Minnesota Medicine                                                          | 1                     |
| 20   |      | Missouri Medicine                                                           | 1                     |
| 20   |      | Nutrition Reviews                                                           | 1                     |
| 20   |      | Obstetrics and Gynecology Review                                            | 1                     |
| 20   |      | Ohio State Medical Journal                                                  | 1                     |
| 20   |      | Orthopedic Clinics of North America                                         | 1                     |
| 20   |      | Pennsylvania Medicine                                                       | 1                     |
| 20   |      | Pediatrics                                                                  | 1                     |
| 20   |      | Polish Medical Journal                                                      | 1                     |
| 20   |      | Proceedings of the Royal Society of Medicine                                | 1                     |
| 20   |      | Psychiatric Quarterly                                                       | 1                     |
| 20   |      | Quarterly Journal of Medicine                                               | 1                     |
| 20   |      | Rocky Mountain Medical Journal                                              | 1                     |
| 20   |      | Thrombosis et Diathesis Haemorrhagica                                       | 1                     |
| 20   |      | Transactions of the American Academy of Ophthalmology<br>and Otolaryngology | 1                     |
| 20   |      | Zeitschrift für Klinische Chemie und Klinische<br>Biochemie                 | 1                     |

ZONE III contains 120 journal titles (78.9%) that produced 176 documents (31.8%)

# APPENDIX E (CONTINUED)

## JOURNAL FREQUENCY LIST BY BROAD SUBJECT AREAS

### Journal Frequency List for Digestive System Diseases

| RANK | ZONE | JOURNAL TITLE                        | ABSOLUTE<br>FREQUENCY |
|------|------|--------------------------------------|-----------------------|
| 1    | I    | American Journal of Surgery          | 18                    |
| 2    |      | Gastroenterology                     | 17                    |
| 2    |      | New England Journal of Medicine      | 17                    |
| 3    |      | Annals of Internal Medicine          | 16                    |
| 4    |      | Annals of Surgery                    | 13                    |
| 5    |      | American Journal of Gastroenterology | 9                     |
| 5    |      | British Medical Journal              | 9                     |

ZONE I contains 7 journal titles (6.6%) that produced 99 documents (31.9%)

|   |    |                                             |   |
|---|----|---------------------------------------------|---|
| 6 | II | Archives of Surgery                         | 8 |
| 6 |    | British Journal of Surgery                  | 8 |
| 6 |    | Medical Journal of Australia                | 8 |
| 6 |    | Postgraduate Medicine                       | 8 |
| 6 |    | Southern Medical Journal                    | 8 |
| 6 |    | Surgical Clinics of North America           | 8 |
| 7 |    | American Surgeon                            | 6 |
| 8 |    | Gut                                         | 5 |
| 8 |    | Journal of the American Medical Association | 5 |
| 8 |    | Lancet                                      | 5 |
| 8 |    | Medical Clinics of North America            | 5 |
| 8 |    | Surgery, Gynecology and Obstetrics          | 5 |
| 9 |    | Acta Chirurgica Scandinavica                | 4 |

ZONE II contains 13 journal titles (12.3%) that produced 83 documents (26.8%)

|    |     |                                               |   |
|----|-----|-----------------------------------------------|---|
| 10 | III | Advances in Internal Medicine                 | 3 |
| 10 |     | Advances in Surgery                           | 3 |
| 10 |     | American Family Physician                     | 3 |
| 10 |     | American Journal of Medicine                  | 3 |
| 10 |     | Archives of Internal Medicine                 | 3 |
| 10 |     | Australian and New Zealand Journal of Surgery | 3 |
| 10 |     | Geriatrics                                    | 3 |
| 10 |     | Journal of Clinical Pathology                 | 3 |

# Journals, Digestive System, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                                             | ABSOLUTE<br>FREQUENCY |
|------|------|---------------------------------------------------------------------------|-----------------------|
| 10   | III  | Pediatrics                                                                | 3                     |
| 10   |      | Progress in Liver Disease                                                 | 3                     |
| 10   |      | Review of Surgery                                                         | 3                     |
| 10   |      | Scandinavian Journal of Gastroenterology                                  | 3                     |
| 10   |      | South African Medical Journal                                             | 3                     |
| 10   |      | Surgery                                                                   | 3                     |
| 11   |      | American Journal of Roentgenology, Radium Therapy<br>and Nuclear Medicine | 2                     |
| 11   |      | Annals of the New York Academy of Sciences                                | 2                     |
| 11   |      | Annual Review of Medicine                                                 | 2                     |
| 11   |      | Clinics in Gastroenterology                                               | 2                     |
| 11   |      | Danish Medical Bulletin                                                   | 2                     |
| 11   |      | Digestion                                                                 | 2                     |
| 11   |      | Diseases of the Colon and Rectum                                          | 2                     |
| 11   |      | DM;Disease-A-Month                                                        | 2                     |
| 11   |      | International Surgery                                                     | 2                     |
| 11   |      | Journal of Thoracic and Cardiovascular Surgery                            | 2                     |
| 11   |      | New York State Journal of Medicine                                        | 2                     |
| 11   |      | Obstetrics and Gynecology                                                 | 2                     |
| 11   |      | Practitioner                                                              | 2                     |
| 11   |      | Proceedings of the Royal Society of Medicine                              | 2                     |
| 12   |      | Acta Cardiologica                                                         | 1                     |
| 12   |      | Acta Hepato-Gastroenterologica                                            | 1                     |
| 12   |      | Acta Medica Scandinavica                                                  | 1                     |
| 12   |      | American Journal of Clinical Nutrition                                    | 1                     |
| 12   |      | American Journal of Clinical Pathology                                    | 1                     |
| 12   |      | American Journal of Digestive Diseases                                    | 1                     |
| 12   |      | American Journal of Diseases of Children                                  | 1                     |
| 12   |      | American Journal of Epidemiology                                          | 1                     |
| 12   |      | American Journal of Hospital Pharmacy                                     | 1                     |
| 12   |      | American Journal of the Medical Sciences                                  | 1                     |
| 12   |      | American Journal of Physiology                                            | 1                     |
| 12   |      | American Review of Respiratory Disease                                    | 1                     |
| 12   |      | Annals of Thoracic Surgery                                                | 1                     |
| 12   |      | Archives of Disease in Childhood                                          | 1                     |
| 12   |      | Archives of Pathology                                                     | 1                     |
| 12   |      | Australasian Radiology                                                    | 1                     |
| 12   |      | British Journal of Radiology                                              | 1                     |
| 12   |      | Canadian Medical Association Journal                                      | 1                     |
| 12   |      | Chest                                                                     | 1                     |
| 12   |      | Circulation; Journal of the American Heart Association                    | 1                     |
| 12   |      | Clinica Chimica Acta                                                      | 1                     |
| 12   |      | Current Problems in Surgery                                               | 1                     |
| 12   |      | Diabetes                                                                  | 1                     |
| 12   |      | Dimensions of Health Service                                              | 1                     |



Journals, Digestive System, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                                               | ABSOLUTE<br>FREQUENCY |
|------|------|-----------------------------------------------------------------------------|-----------------------|
| 12   | III  | Drugs                                                                       | 1                     |
| 12   |      | Fertility and Sterility                                                     | 1                     |
| 12   |      | Gastrointestinal Endoscopy                                                  | 1                     |
| 12   |      | Hospital Practice                                                           | 1                     |
| 12   |      | Indian Journal of Medical Science                                           | 1                     |
| 12   |      | Journal of the Arkansas Medical Society                                     | 1                     |
| 12   |      | Journal of the Association of Physicians of India                           | 1                     |
| 12   |      | Journal of Clinical Endocrinology and Metabolism                            | 1                     |
| 12   |      | Journal of Clinical Investigation                                           | 1                     |
| 12   |      | Journal of the Indian Medical Association                                   | 1                     |
| 12   |      | Journal of the National Medical Association                                 | 1                     |
| 12   |      | Journal of Nuclear Medicine                                                 | 1                     |
| 12   |      | Journal of Pediatrics                                                       | 1                     |
| 12   |      | Medicine and Biology                                                        | 1                     |
| 12   |      | Medical World News                                                          | 1                     |
| 12   |      | Medicine (Baltimore)                                                        | 1                     |
| 12   |      | Military Medicine                                                           | 1                     |
| 12   |      | Neurology (Minneapolis)                                                     | 1                     |
| 12   |      | Nursing Times                                                               | 1                     |
| 12   |      | Ohio State Medical Journal                                                  | 1                     |
| 12   |      | Pediatric Clinics of North America                                          | 1                     |
| 12   |      | Progress in Surgery                                                         | 1                     |
| 12   |      | Radiology                                                                   | 1                     |
| 12   |      | Seminars in Drug Treatment                                                  | 1                     |
| 12   |      | Seminars in Roentgenology                                                   | 1                     |
| 12   |      | South African Journal of Medical Science                                    | 1                     |
| 12   |      | Surgery Annual                                                              | 1                     |
| 12   |      | Surgical Forum                                                              | 1                     |
| 12   |      | Texas Medicine                                                              | 1                     |
| 12   |      | Thorax                                                                      | 1                     |
| 12   |      | Thrombosis et Diathesis Haemorrhagica                                       | 1                     |
| 12   |      | Transactions of the American Academy of Ophthalmology<br>and Otolaryngology | 1                     |
| 12   |      | Virginia Medical Monthly                                                    | 1                     |
| 12   |      | Western Journal of Medicine                                                 | 1                     |

ZONE III contains 86 journal titles (81.1%) that produced 128 documents (41.3%)



# APPENDIX E (CONTINUED)

## JOURNAL FREQUENCY LISTS BY BROAD SUBJECT AREAS

### Frequency List for Obstetrics and Gynecology

| RANK | ZONE | JOURNAL TITLE                                 | ABSOLUTE<br>FREQUENCY |
|------|------|-----------------------------------------------|-----------------------|
| 1    | I    | American Journal of Obstetrics and Gynecology | 110                   |
| 2    |      | Obstetrics and Gynecology                     | 59                    |
| 3    |      | Clinical Obstetrics and Gynecology            | 29                    |

ZONE I contains 3 journal titles (1.9%) that produced 198 documents (33.5%)

|    |    |                                                                            |    |
|----|----|----------------------------------------------------------------------------|----|
| 4  | II | British Journal of Obstetrics and Gynaecology                              | 17 |
| 4  |    | Obstetrics and Gynecology Survery                                          | 17 |
| 5  |    | Journal of Reproductive Medicine                                           | 14 |
| 6  |    | Lancet                                                                     | 13 |
| 7  |    | Journal of the American Medical Association                                | 12 |
| 8  |    | British Medical Journal                                                    | 10 |
| 9  |    | Medical Clinics of North America                                           | 9  |
| 10 |    | Medical Journal of Australia                                               | 8  |
| 11 |    | Acta Obstetricia et Gynecologica Scandinavica                              | 7  |
| 11 |    | Archives of Internal Medicine                                              | 7  |
| 11 |    | Canadian Medical Association Journal                                       | 7  |
| 11 |    | New England Journal of Medicine                                            | 7  |
| 11 |    | Progress in Cardiovascular Diseases                                        | 7  |
| 11 |    | Urology                                                                    | 7  |
| 12 |    | American Journal of Diseases of Children                                   | 6  |
| 12 |    | Current Medical Research Opinions                                          | 6  |
| 12 |    | Journal of Pediatrics                                                      | 6  |
| 13 |    | American Journal of Roentgenology, Radium Therapy,<br>and Nuclear Medicine | 5  |
| 13 |    | American Surgeon                                                           | 5  |
| 13 |    | Fertility and Sterility                                                    | 5  |
| 13 |    | International Surgery                                                      | 5  |
| 13 |    | Obstetrics and Gynecology Annual                                           | 5  |

ZONE II contains 22 journal titles (13.9%) that produced 185 documents (31.3%)

Journals, Obstetrics and Gynecology, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                                              | ABSOLUTE<br>FREQUENCY |
|------|------|----------------------------------------------------------------------------|-----------------------|
| 14   | III  | Acta Geneticae Medicae et Gemellologiae                                    | 4                     |
| 14   |      | American Journal of Cardiology                                             | 4                     |
| 14   |      | Archives of Surgery                                                        | 4                     |
| 14   |      | Radiology                                                                  | 4                     |
| 14   |      | Southern Medical Journal                                                   | 4                     |
| 14   |      | Surgery, Gynecology and Obstetrics                                         | 4                     |
| 15   |      | American Journal of Nursing                                                | 3                     |
| 15   |      | Cancer                                                                     | 3                     |
| 15   |      | Developmental Medicine and Child Neurology                                 | 3                     |
| 15   |      | Diabetes                                                                   | 3                     |
| 15   |      | Drugs                                                                      | 3                     |
| 15   |      | International Journal of Fertility                                         | 3                     |
| 15   |      | Journal of the American Society of Psychosomatic<br>Dentistry and Medicine | 3                     |
| 15   |      | Journal of Clinical Endocrinology and Metabolism                           | 3                     |
| 15   |      | JOGN Nursing                                                               | 3                     |
| 15   |      | Journal of Pediatric Surgery                                               | 3                     |
| 15   |      | New York State Journal of Medicine                                         | 3                     |
| 15   |      | Ohio State Medical Journal                                                 | 3                     |
| 15   |      | Pathology Annual                                                           | 3                     |
| 15   |      | Postgraduate Medicine                                                      | 3                     |
| 15   |      | Practitioner                                                               | 3                     |
| 15   |      | South African Medical Journal                                              | 3                     |
| 15   |      | Western Journal of Medicine                                                | 3                     |
| 16   |      | Acta Ophtalmologica                                                        | 2                     |
| 16   |      | Advances in Experimental Medicine and Biology                              | 2                     |
| 16   |      | American Heart Journal                                                     | 2                     |
| 16   |      | American Journal of Medicine                                               | 2                     |
| 16   |      | Australian and New Zealand Journal of Obstetrics<br>and Gynaecology        | 2                     |
| 16   |      | Biology of the Neonate                                                     | 2                     |
| 16   |      | British Journal of Radiology                                               | 2                     |
| 16   |      | British Journal of Venereal Disease                                        | 2                     |
| 16   |      | Bulletin of the New York Academy of Medicine                               | 2                     |
| 16   |      | Clinical Endocrinology and Metabolism                                      | 2                     |
| 16   |      | Clinical Plastic Surgery                                                   | 2                     |
| 16   |      | Current Problems in Pediatrics                                             | 2                     |
| 16   |      | DM:Disease-A-Month                                                         | 2                     |
| 16   |      | Gastroenterology                                                           | 2                     |
| 16   |      | Journal of the Medical Society of New Jersey                               | 2                     |
| 16   |      | Journal of the National Medical Association                                | 2                     |
| 16   |      | Minnesota Medicine                                                         | 2                     |
| 16   |      | Nursing Mirror                                                             | 2                     |
| 16   |      | Preventive Medicine                                                        | 2                     |
| 16   |      | Proceedings of the Royal Society of Medicine                               | 2                     |

Journals, Obstetrics and Gynecology, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                  | ABSOLUTE<br>FREQUENCY |
|------|------|------------------------------------------------|-----------------------|
| 16   | III  | Scandinavian Journal of Urology and Nephrology | 2                     |
| 16   |      | Surgery                                        | 2                     |
| 16   |      | Surgical Clinics of North America              | 2                     |
| 17   |      | Acta Chirurgica Scandinavica                   | 1                     |
| 17   |      | Acta Endocrinologica                           | 1                     |
| 17   |      | Acta Medica Scandinavica                       | 1                     |
| 17   |      | Acta Paediatrica Scandinavica                  | 1                     |
| 17   |      | Acta Psychiatrica Scandinavica                 | 1                     |
| 17   |      | Acta Radiologica; Diagnosis                    | 1                     |
| 17   |      | American Family Physician                      | 1                     |
| 17   |      | American Journal of Clinical Pathology         | 1                     |
| 17   |      | American Journal of Hospital Pharmacy          | 1                     |
| 17   |      | American Journal of Public Health              | 1                     |
| 17   |      | Anaesthesia                                    | 1                     |
| 17   |      | Anesthesia and Analgesia; Current Researches   | 1                     |
| 17   |      | Anesthesiology                                 | 1                     |
| 17   |      | Annals of Clinical Laboratory Science          | 1                     |
| 17   |      | Annals of Internal Medicine                    | 1                     |
| 17   |      | Archives of Disease in Childhood               | 1                     |
| 17   |      | Arizona Medicine                               | 1                     |
| 17   |      | Australasian Radiology                         | 1                     |
| 17   |      | Bibliotheca Anatomica                          | 1                     |
| 17   |      | Birth Defects                                  | 1                     |
| 17   |      | Brain; Journal of Neurology                    | 1                     |
| 17   |      | British Heart Journal                          | 1                     |
| 17   |      | British Journal of Anaesthesia                 | 1                     |
| 17   |      | British Journal of Dermatology                 | 1                     |
| 17   |      | British Journal of Medical Psychology          | 1                     |
| 17   |      | British Journal of Plastic Surgery             | 1                     |
| 17   |      | British Journal of Psychiatry                  | 1                     |
| 17   |      | British Journal of Surgery                     | 1                     |
| 17   |      | Canadian Anaesthetists' Society Journal        | 1                     |
| 17   |      | Cancer Chemotherapy Reports                    | 1                     |
| 17   |      | Cancer Research                                | 1                     |
| 17   |      | Child Psychiatry and Human Development         | 1                     |
| 17   |      | Clinical Pediatrics (Philadelphia)             | 1                     |
| 17   |      | Clinical Toxicology                            | 1                     |
| 17   |      | Clinics in Developmental Medicine              | 1                     |
| 17   |      | Danish Medical Bulletin                        | 1                     |
| 17   |      | Dental Clinics of North America                | 1                     |
| 17   |      | Endocrinologica Experimentalis                 | 1                     |
| 17   |      | Endocrinology                                  | 1                     |
| 17   |      | Epilepsia                                      | 1                     |
| 17   |      | Ghana Medical Journal                          | 1                     |
| 17   |      | Gynecologic Oncology                           | 1                     |
| 17   |      | Illinois Medical Journal                       | 1                     |

Journals, Obstetrics and Gynecology, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                                                          | ABSOLUTE<br>FREQUENCY |
|------|------|----------------------------------------------------------------------------------------|-----------------------|
| 17   | III  | Irish Medical Journal                                                                  | 1                     |
| 17   |      | Journal of the American Dental Association                                             | 1                     |
| 17   |      | Journal of the Arkansas Medical Society                                                | 1                     |
| 17   |      | Journal of Cardiovascular Surgery (Torino)                                             | 1                     |
| 17   |      | Journal of Clinical Pathology                                                          | 1                     |
| 17   |      | Journal of Family Practice                                                             | 1                     |
| 17   |      | Journal of the Indian Medical Association                                              | 1                     |
| 17   |      | Journal of Investigative Dermatology                                                   | 1                     |
| 17   |      | Journal of the Irish Medical Association                                               | 1                     |
| 17   |      | Journal of Neurology, Neurosurgery and Psychiatry                                      | 1                     |
| 17   |      | Journal of Nuclear Medicine                                                            | 1                     |
| 17   |      | Journal of Pathology                                                                   | 1                     |
| 17   |      | Journal of Psychosomatic Research                                                      | 1                     |
| 17   |      | Journal of the South Carolina Medical Association                                      | 1                     |
| 17   |      | Journal of Surgical Research                                                           | 1                     |
| 17   |      | Journal of Urology                                                                     | 1                     |
| 17   |      | Kidney International                                                                   | 1                     |
| 17   |      | Medical Annals of the District of Columbia                                             | 1                     |
| 17   |      | Missouri Medicine                                                                      | 1                     |
| 17   |      | Modern Concepts of Cardiovascular Disease                                              | 1                     |
| 17   |      | Mount Sinai Journal of Medicine, New York                                              | 1                     |
| 17   |      | Nature                                                                                 | 1                     |
| 17   |      | Nova Scotia Medical Bulletin                                                           | 1                     |
| 17   |      | Ophthalmologica                                                                        | 1                     |
| 17   |      | Pediatric Research                                                                     | 1                     |
| 17   |      | Pediatrics                                                                             | 1                     |
| 17   |      | Physical Therapy                                                                       | 1                     |
| 17   |      | Plastic and Reconstructive Surgery                                                     | 1                     |
| 17   |      | Postgraduate Medical Journal                                                           | 1                     |
| 17   |      | Proceedings of the National Cancer Conference                                          | 1                     |
| 17   |      | Proceedings of the Rudolf Virchow Medical Society<br>in the City of New York           | 1                     |
| 17   |      | Proceedings of the Society for Experimental Biology<br>and Medicine                    | 1                     |
| 17   |      | Psychomatic Medicine                                                                   | 1                     |
| 17   |      | Radiologic Clinics of North America                                                    | 1                     |
| 17   |      | Research Publications of the Association for<br>Research in Nervous and Mental Disease | 1                     |
| 17   |      | Rocky Mountain Medical Journal                                                         | 1                     |
| 17   |      | Seminars in Drug Treatment                                                             | 1                     |
| 17   |      | Seminars in Roentgenology                                                              | 1                     |
| 17   |      | SA Nursing Journal                                                                     | 1                     |
| 17   |      | Surgery Annual                                                                         | 1                     |
| 17   |      | Tissue Antigens                                                                        | 1                     |
| 17   |      | Vascular Surgery                                                                       | 1                     |

# Journals, Obstetrics and Gynecology, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE         | ABSOLUTE<br>FREQUENCY |
|------|------|-----------------------|-----------------------|
| 17   | III  | Vitamins and Hormones | 1                     |
| 17   |      | Weather Vane          | 1                     |

ZONE III contains 133 journal titles (84.2%) that produced 208 documents (35.2%)

# APPENDIX E (CONTINUED)

## JOURNAL FREQUENCY LISTS BY BROAD SUBJECT AREAS

### Journal Frequency List for Pediatrics

| RANK | ZONE | JOURNAL TITLE                                 | ABSOLUTE<br>FREQUENCY |
|------|------|-----------------------------------------------|-----------------------|
| 1    | I    | Lancet                                        | 11                    |
| 2    |      | Pediatrics                                    | 10                    |
| 2    |      | Southern Medical Journal                      | 10                    |
| 3    |      | American Journal of Diseases of Children      | 9                     |
| 3    |      | Journal of Pediatrics                         | 9                     |
| 4    |      | American Journal of Obstetrics and Gynecology | 7                     |
| 4    |      | Developmental Medicine and Child Neurology    | 7                     |
| 4    |      | Obstetrics and Gynecology                     | 7                     |
| 5    |      | British Medical Journal                       | 6                     |
| 5    |      | Journal of the American Medical Association   | 6                     |

ZONE I contains 10 journal titles (7.7%) that produced 88 documents (32.6%)

|   |    |                                                                           |   |
|---|----|---------------------------------------------------------------------------|---|
| 6 | II | Acta Paediatrica Scandinavica                                             | 5 |
| 6 |    | Archives of Disease in Childhood                                          | 5 |
| 6 |    | New England Journal of Medicine                                           | 5 |
| 6 |    | South African Medical Journal                                             | 5 |
| 7 |    | Archives of Dermatology                                                   | 4 |
| 7 |    | Cancer                                                                    | 4 |
| 7 |    | Pediatric Clinics of North America                                        | 4 |
| 7 |    | Surgery, Gynecology and Obstetrics                                        | 4 |
| 8 |    | American Journal of Roentgenology, Radium Therapy<br>and Nuclear Medicine | 3 |
| 8 |    | American Journal of Surgery                                               | 3 |
| 8 |    | Archives of Otolaryngology                                                | 3 |
| 8 |    | Laryngoscope                                                              | 3 |
| 8 |    | Mayo Clinic Proceedings                                                   | 3 |
| 8 |    | Medical Journal of Australia                                              | 3 |

ZONE II contains 14 journal titles (10.3%) that produced 54 documents (20.0%)



# Journals, Pediatrics, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                          | ABSOLUTE<br>FREQUENCY |
|------|------|--------------------------------------------------------|-----------------------|
| 9    | III  | Acta Neurologica Scandinavica                          | 2                     |
| 9    |      | Advances in Experimental Medicine and Biology          | 2                     |
| 9    |      | American Journal of Human Genetics                     | 2                     |
| 9    |      | American Journal of Ophthalmology                      | 2                     |
| 9    |      | American Surgeon                                       | 2                     |
| 9    |      | Annals of Internal Medicine                            | 2                     |
| 9    |      | Annals of Thoracic Surgery                             | 2                     |
| 9    |      | Antimicrobial Agents and Chemotherapy                  | 2                     |
| 9    |      | Archives of Neurology                                  | 2                     |
| 9    |      | Archives of Surgery                                    | 2                     |
| 9    |      | Birth Defects                                          | 2                     |
| 9    |      | British Journal of Surgery                             | 2                     |
| 9    |      | Chest                                                  | 2                     |
| 9    |      | Circulation; Journal of the American Heart Association | 2                     |
| 9    |      | Clinica Chimica Acta                                   | 2                     |
| 9    |      | Clinical Obstetrics and Gynecology                     | 2                     |
| 9    |      | Clinical Pediatrics (Philadelphia)                     | 2                     |
| 9    |      | Clinical Plastic Surgery                               | 2                     |
| 9    |      | DM; Disease-A-Month                                    | 2                     |
| 9    |      | Gastroenterology                                       | 2                     |
| 9    |      | Journal of the American Psychoanalytic Association     | 2                     |
| 9    |      | Journal of Laryngology and Otology                     | 2                     |
| 9    |      | Journal of Neurology, Neurosurgery and Psychiatry      | 2                     |
| 9    |      | Journal of Thoracic and Cardiovascular Surgery         | 2                     |
| 9    |      | Journal of Urology                                     | 2                     |
| 9    |      | Medical Letter on Drugs and Therapeutics               | 2                     |
| 9    |      | Nutrition Reviews                                      | 2                     |
| 9    |      | Western Journal of Medicine                            | 2                     |
| 10   |      | Acta Ophthalmologica                                   | 1                     |
| 10   |      | Advances in Pediatrics                                 | 1                     |
| 10   |      | American Family Physician                              | 1                     |
| 10   |      | American Journal of Clinical Nutrition                 | 1                     |
| 10   |      | American Journal of Clinical Pathology                 | 1                     |
| 10   |      | American Journal of Gastroenterology                   | 1                     |
| 10   |      | American Journal of Medicine                           | 1                     |
| 10   |      | American Journal of Public Health                      | 1                     |
| 10   |      | American Review of Respiratory Disease                 | 1                     |
| 10   |      | Anesthesiology                                         | 1                     |
| 10   |      | Annals of Otology, Rhinology and Laryngology           | 1                     |
| 10   |      | Annals of Surgery                                      | 1                     |
| 10   |      | Archives of Internal Medicine                          | 1                     |
| 10   |      | Archives of Ophthalmology                              | 1                     |
| 10   |      | Archives of Pathology                                  | 1                     |
| 10   |      | Arthritis and Rheumatism                               | 1                     |
| 10   |      | Australasian-Radiology                                 | 1                     |
| 10   |      | Australian and New Zealand Journal of Surgery          | 1                     |

Journals, Pediatrics, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                        | ABSOLUTE<br>FREQUENCY |
|------|------|------------------------------------------------------|-----------------------|
| 10   | III  | British Journal of Anaesthesia                       | 1                     |
| 10   |      | British Journal of Medical Psychology                | 1                     |
| 10   |      | British Journal of Obstetrics and Gynaecology        | 1                     |
| 10   |      | British Journal of Radiology                         | 1                     |
| 10   |      | British Journal of Urology                           | 1                     |
| 10   |      | Canadian Anaesthetists' Society Journal              | 1                     |
| 10   |      | Canadian Medical Association Journal                 | 1                     |
| 10   |      | Cardiovascular Clinics                               | 1                     |
| 10   |      | Chemotherapy                                         | 1                     |
| 10   |      | Cleveland Clinic Quarterly                           | 1                     |
| 10   |      | Clinical Immunology and Immunopathology              | 1                     |
| 10   |      | Clinical Orthopaedics and Related Research           | 1                     |
| 10   |      | Clinical Toxicology                                  | 1                     |
| 10   |      | Clinics in Gastroenterology                          | 1                     |
| 10   |      | CRC Critical Reviews in Clinical Laboratory Sciences | 1                     |
| 10   |      | Current Problems in Pediatrics                       | 1                     |
| 10   |      | Current Therapeutic Research                         | 1                     |
| 10   |      | Dental Clinics of North America                      | 1                     |
| 10   |      | Diabetes                                             | 1                     |
| 10   |      | Experientia                                          | 1                     |
| 10   |      | Eye, Ear, Nose and Throat Monthly                    | 1                     |
| 10   |      | Gut                                                  | 1                     |
| 10   |      | Human Pathology                                      | 1                     |
| 10   |      | Illinois Medical Journal                             | 1                     |
| 10   |      | Journal of the American Dental Association           | 1                     |
| 10   |      | Journal of Experimental Medicine                     | 1                     |
| 10   |      | Journal of Immunology                                | 1                     |
| 10   |      | Journal of Infectious Diseases                       | 1                     |
| 10   |      | Journal of Investigative Dermatology                 | 1                     |
| 10   |      | Journal of the National Medical Association          | 1                     |
| 10   |      | Journal of Neurosurgery                              | 1                     |
| 10   |      | Journal of Pediatric Surgery                         | 1                     |
| 10   |      | Journal of Psychosomatic Research                    | 1                     |
| 10   |      | Journal of Trauma                                    | 1                     |
| 10   |      | Journal of Tropical Medicine and Hygiene             | 1                     |
| 10   |      | Military Medicine                                    | 1                     |
| 10   |      | Minnesota Medicine                                   | 1                     |
| 10   |      | Neurology (Minneapolis)                              | 1                     |
| 10   |      | New York State Journal of Medicine                   | 1                     |
| 10   |      | Nursing Times                                        | 1                     |
| 10   |      | Obstetrics and Gynecology Annual                     | 1                     |
| 10   |      | Ophthalmologica                                      | 1                     |
| 10   |      | Pediatric Research                                   | 1                     |
| 10   |      | Perspectives in Psychiatric Care                     | 1                     |
| 10   |      | Postgraduate Medical Journal                         | 1                     |

# Journals, Pediatrics, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                                                      | ABSOLUTE<br>FREQUENCY |
|------|------|------------------------------------------------------------------------------------|-----------------------|
| 10   | III  | Practitioner                                                                       | 1                     |
| 10   |      | Proceedings of the National Academy of Sciences of<br>the United States of America | 1                     |
| 10   |      | Progress in Cardiovascular Diseases                                                | 1                     |
| 10   |      | Psychological Bulletin                                                             | 1                     |
| 10   |      | Radiography                                                                        | 1                     |
| 10   |      | Review of Surgery                                                                  | 1                     |
| 10   |      | Rheumatology                                                                       | 1                     |
| 10   |      | Scandinavian Journal of Infectious Diseases                                        | 1                     |
| 10   |      | South African Medical Journal                                                      | 1                     |
| 10   |      | Surgery                                                                            | 1                     |
| 10   |      | Surgical Clinics of North America                                                  | 1                     |
| 10   |      | Texas Medicine                                                                     | 1                     |
| 10   |      | Thrombosis et Diathesis Haemorrhagica                                              | 1                     |
| 10   |      | Urology                                                                            | 1                     |
| 10   |      | Urologic Clinics of North America                                                  | 1                     |

ZONE III contains 106 journal titles (81.5%) that produced 128 documents (47.4%)

# APPENDIX E (CONTINUED)

## JOURNAL FREQUENCY LISTS BY BROAD SUBJECT

### Journal Frequency List for Diagnosis

| RANK | ZONE | JOURNAL TITLE                                 | ABSOLUTE<br>FREQUENCY |
|------|------|-----------------------------------------------|-----------------------|
| 1    | I    | New England Journal of Medicine               | 31                    |
| 2    |      | American Journal of Obstetrics and Gynecology | 27                    |
| 3    |      | British Medical Journal                       | 15                    |
| 4    |      | Annals of Internal Medicine                   | 14                    |
| 4    |      | Obstetrics and Gynecology                     | 14                    |
| 5    |      | American Journal of Medicine                  | 11                    |
| 5    |      | Chest                                         | 11                    |
| 5    |      | Medical Clinics of North America              | 11                    |
| 5    |      | Postgraduate Medicine                         | 11                    |
| 6    |      | Annals of Surgery                             | 10                    |
| 7    |      | Archives of Internal Medicine                 | 9                     |
| 7    |      | Journal of the American Medical Association   | 9                     |

ZONE I contains 12 journal titles ( 6.6%) that produced 173 documents (33.0%)

|    |    |                                                                           |   |
|----|----|---------------------------------------------------------------------------|---|
| 8  | II | American Journal of Cardiology                                            | 8 |
| 8  |    | British Heart Journal                                                     | 8 |
| 8  |    | British Journal of Radiology                                              | 8 |
| 8  |    | British Journal of Surgery                                                | 8 |
| 9  |    | American Journal of Surgery                                               | 7 |
| 9  |    | American Review of Respiratory Disease                                    | 7 |
| 9  |    | Archives of Surgery                                                       | 7 |
| 10 |    | Advances in Internal Medicine                                             | 6 |
| 10 |    | Cancer                                                                    | 6 |
| 10 |    | Clinical Obstetrics and Gynecology                                        | 6 |
| 10 |    | Radiology                                                                 | 6 |
| 11 |    | American Journal of Roentgenology, Radium Therapy<br>and Nuclear Medicine | 5 |
| 11 |    | Cardiovascular Research                                                   | 5 |
| 11 |    | Circulation Journal of the American Heart Association                     | 5 |
| 11 |    | Diabetes                                                                  | 5 |
| 11 |    | Lancet                                                                    | 5 |
| 11 |    | Surgical Clinics of North America                                         | 5 |
| 12 |    | American Journal of Gastroenterology                                      | 4 |
| 12 |    | Archives of Neurology                                                     | 4 |

Journals, Diagnosis, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                       | ABSOLUTE<br>FREQUENCY |
|------|------|-------------------------------------|-----------------------|
| 12   | II   | DM: Disease-A-Month                 | 4                     |
| 12   |      | Journal of Infectious Diseases      | 4                     |
| 12   |      | Progress in Cardiovascular Diseases | 4                     |
| 12   |      | Progress in Liver Diseases          | 4                     |
| 12   |      | Southern Medical Journal            | 4                     |

ZONE II contains 24 journal titles (13.3%) that produced 135 documents (25.8%)

|    |     |                                                    |   |
|----|-----|----------------------------------------------------|---|
| 13 | III | Acta Obstetricia et Gynecologica Scandinavica      | 3 |
| 13 |     | American Heart Journal                             | 3 |
| 13 |     | American Journal of Clinical Pathology             | 3 |
| 13 |     | American Journal of Tropical Medicine and Hygiene  | 3 |
| 13 |     | Angiology                                          | 3 |
| 13 |     | Annals of Thoracic Surgery                         | 3 |
| 13 |     | British Journal of Obstetrics and Gynaecology      | 3 |
| 13 |     | British Journal of Venereal Diseases               | 3 |
| 13 |     | Canadian Medical Association Journal               | 3 |
| 13 |     | Clinical Chemistry                                 | 3 |
| 13 |     | Journal of the Arkansas Medical Society            | 3 |
| 13 |     | Journal of Laryngology and Otology                 | 3 |
| 13 |     | Journal of Nuclear Medicine                        | 3 |
| 13 |     | Journal of Pediatrics                              | 3 |
| 13 |     | Journal of Reproductive Medicine                   | 3 |
| 13 |     | Medical Journal of Australia                       | 3 |
| 13 |     | Neurology (Minneapolis)                            | 3 |
| 13 |     | Radiologic Clinics of North America                | 3 |
| 13 |     | Seminars in Nuclear Medicine                       | 3 |
| 13 |     | South African Medical Journal                      | 3 |
| 14 |     | Acta Chirurgica Scandinavica                       | 2 |
| 14 |     | American Journal of the Medical Sciences           | 2 |
| 14 |     | American Journal of Nursing                        | 2 |
| 14 |     | Annual Review of Medicine                          | 2 |
| 14 |     | Brain; Journal of Neurology                        | 2 |
| 14 |     | Canadian Journal of Public Health                  | 2 |
| 14 |     | Cardiovascular Clinics                             | 2 |
| 14 |     | Cleveland Clinic Quarterly                         | 2 |
| 14 |     | Danish Medical Bulletin                            | 2 |
| 14 |     | Gastroenterology                                   | 2 |
| 14 |     | Geriatrics                                         | 2 |
| 14 |     | Heart and Lung                                     | 2 |
| 14 |     | Hospital Practice                                  | 2 |
| 14 |     | Johns Hopkins Medical Journal                      | 2 |
| 14 |     | Journal of the American Psychoanalytic Association | 2 |
| 14 |     | Journal of Thoracic and Cardiovascular Surgery     | 2 |



# Journals, Diagnosis, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                                       | ABSOLUTE<br>FREQUENCY |
|------|------|---------------------------------------------------------------------|-----------------------|
| 14   | III  | Journal of Trauma                                                   | 2                     |
| 14   |      | New York State Journal of Medicine                                  | 2                     |
| 14   |      | Obstetrics and Gynecology Survey                                    | 2                     |
| 14   |      | Orthopedic Clinics of North America                                 | 2                     |
| 14   |      | Otolaryngologic Clinics of North America                            | 2                     |
| 14   |      | Pediatric Clinics of North America                                  | 2                     |
| 14   |      | Pediatrics                                                          | 2                     |
| 14   |      | Practitioner                                                        | 2                     |
| 14   |      | Proceedings of the Society for Experimental Biology<br>and Medicine | 2                     |
| 14   |      | Scandinavian Journal of Infectious Diseases                         | 2                     |
| 14   |      | Scandinavian Journal of Respiratory Diseases                        | 2                     |
| 14   |      | Scandinavian Journal of Thoracic and Cardiovascular<br>Diseases     | 2                     |
| 14   |      | Surgery, Gynecology and Obstetrics                                  | 2                     |
| 14   |      | Thorax                                                              | 2                     |
| 14   |      | Western Journal of Medicine                                         | 2                     |
| 15   |      | Acta Medica Scandinavica                                            | 1                     |
| 15   |      | Acta Neurologica Scandinavica                                       | 1                     |
| 15   |      | Acta Paediatrica Scandinavica                                       | 1                     |
| 15   |      | Advances in Clinical Chemistry                                      | 1                     |
| 15   |      | Advances in Parasitology                                            | 1                     |
| 15   |      | American Family Physician                                           | 1                     |
| 15   |      | American Journal of Hospital Pharmacy                               | 1                     |
| 15   |      | American Journal of Human Genetics                                  | 1                     |
| 15   |      | American Journal of Medical Technology                              | 1                     |
| 15   |      | American Surgeon                                                    | 1                     |
| 15   |      | Anaesthesia                                                         | 1                     |
| 15   |      | Annals of Clinical Laboratory Science                               | 1                     |
| 15   |      | Annals of Otolaryngology, Rhinology and Laryngology                 | 1                     |
| 15   |      | Annual Review of Pharmacology                                       | 1                     |
| 15   |      | Antimicrobial Agents and Chemotherapy                               | 1                     |
| 15   |      | Applied Microbiology                                                | 1                     |
| 15   |      | Archives of Dermatology                                             | 1                     |
| 15   |      | Archives of Otolaryngology                                          | 1                     |
| 15   |      | Arizona Medicine                                                    | 1                     |
| 15   |      | Arthritis and Rheumatism                                            | 1                     |
| 15   |      | Australian and New Zealand Journal of Surgery                       | 1                     |
| 15   |      | Biomedical Engineering                                              | 1                     |
| 15   |      | British Journal of Cancer                                           | 1                     |
| 15   |      | British Journal of Dermatology                                      | 1                     |
| 15   |      | British Journal of Experimental Pathology                           | 1                     |
| 15   |      | Bulletin of the New York Academy of Medicine                        | 1                     |
| 15   |      | Canadian Journal of Physiology and Pharmacology                     | 1                     |
| 15   |      | Clinical Science                                                    | 1                     |
| 15   |      | Clinical Science and Molecular Medicine                             | 1                     |



Journals, Diagnosis, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                        | ABSOLUTE<br>FREQUENCY |
|------|------|------------------------------------------------------|-----------------------|
| 15   | III  | Clinics in Endocrinology and Metabolism              | 1                     |
| 15   |      | CRC Critical Reviews in Clinical Laboratory Sciences | 1                     |
| 15   |      | Current Medical Research Opinions                    | 1                     |
| 15   |      | Current Problems in Surgery                          | 1                     |
| 15   |      | Current Therapeutic Research                         | 1                     |
| 15   |      | Dental Clinics of North America                      | 1                     |
| 15   |      | Developmental Medicine and Child Neurology           | 1                     |
| 15   |      | Drugs                                                | 1                     |
| 15   |      | Endocrinologica Experimentalis                       | 1                     |
| 15   |      | Fertility and Sterility                              | 1                     |
| 15   |      | Hospitals                                            | 1                     |
| 15   |      | Human Pathology                                      | 1                     |
| 15   |      | International Surgery                                | 1                     |
| 15   |      | Irish Medical Journal                                | 1                     |
| 15   |      | Japanese Circulation Journal                         | 1                     |
| 15   |      | Journal of the Association of Physicians of India    | 1                     |
| 15   |      | Journal of Bone and Joint Surgery (Am)               | 1                     |
| 15   |      | Journal of Cellular Physiology                       | 1                     |
| 15   |      | Journal of Family Practice                           | 1                     |
| 15   |      | Journal of the Lancet                                | 1                     |
| 15   |      | Journal of the Maine Medical Association             | 1                     |
| 15   |      | Journal of Neurology, Neurosurgery and Psychiatry    | 1                     |
| 15   |      | Journal of the Neurological Sciences                 | 1                     |
| 15   |      | Journal of Neurosurgery                              | 1                     |
| 15   |      | Journal of the Oklahoma State Medical Association    | 1                     |
| 15   |      | Journal of Parasitology                              | 1                     |
| 15   |      | Journal of Pathology                                 | 1                     |
| 15   |      | Journal of Pharmaceutical Sciences                   | 1                     |
| 15   |      | Journal of Surgical Oncology                         | 1                     |
| 15   |      | Journal of the Tennessee Medical Association         | 1                     |
| 15   |      | Laryngoscope                                         | 1                     |
| 15   |      | Mayo Clinic Proceedings                              | 1                     |
| 15   |      | Medical World News                                   | 1                     |
| 15   |      | Minnesota Medicine                                   | 1                     |
| 15   |      | Missouri Medicine                                    | 1                     |
| 15   |      | Nebraska Medical Journal                             | 1                     |
| 15   |      | Nursing Mirror                                       | 1                     |
| 15   |      | Nursing Times                                        | 1                     |
| 15   |      | Oncology                                             | 1                     |
| 15   |      | Pathology Annual                                     | 1                     |
| 15   |      | Perspectives in Psychiatric Care                     | 1                     |
| 15   |      | Physical Therapy                                     | 1                     |
| 15   |      | Postgraduate Medical Journal                         | 1                     |
| 15   |      | Progress in Surgery                                  | 1                     |
| 15   |      | Quarterly Journal of Medicine                        | 1                     |

| RANK | ZONE | JOURNAL TITLE                                                                           | ABSOLUTE<br>FREQUENCY |
|------|------|-----------------------------------------------------------------------------------------|-----------------------|
| 15   | III  | Radiography                                                                             | 1                     |
| 15   |      | Rational Drug Therapy                                                                   | 1                     |
| 15   |      | Research Publications of the Association for Research<br>in Nervous and Mental Diseases | 1                     |
| 15   |      | Review of Surgery                                                                       | 1                     |
| 15   |      | RN                                                                                      | 1                     |
| 15   |      | Scandinavian Journal of Gastroenterology                                                | 1                     |
| 15   |      | Scandinavian Journal of Rheumatology                                                    | 1                     |
| 15   |      | Scandinavian Journal of Urology and Nephrology                                          | 1                     |
| 15   |      | Seminars in Hematology                                                                  | 1                     |
| 15   |      | Seminars in Roentgenology                                                               | 1                     |
| 15   |      | Stroke; Journal of Cerebral Circulation                                                 | 1                     |
| 15   |      | Surgery                                                                                 | 1                     |
| 15   |      | Texas Medicine                                                                          | 1                     |
| 15   |      | Transactions of the American Academy of Ophthalmology<br>and Otolaryngology             | 1                     |
| 15   |      | Transactions of the American Neurological Association                                   | 1                     |
| 15   |      | Urology                                                                                 | 1                     |
| 15   |      | Vascular Surgery                                                                        | 1                     |
| 15   |      | Vitamins and Hormones                                                                   | 1                     |
| 15   |      | Zeitschrift fur Klinische Chemie und Klinische<br>Biochemie                             | 1                     |
| 15   |      | Zeitschrift fur Neurologie                                                              | 1                     |

ZONE III contains 145 journal titles (80.1%) that produced 216 documents (41.2%)

## APPENDIX E (CONTINUED)

JOURNAL FREQUENCY LISTS BY BROAD SUBJECTSJournal Frequency List for Drug Therapy

| RANK | ZONE | JOURNAL TITLE                                 | ABSOLUTE<br>FREQUENCY |
|------|------|-----------------------------------------------|-----------------------|
| 1    | I    | New England Journal of Medicine               | 47                    |
| 2    |      | British Medical Journal                       | 30                    |
| 3    |      | Lancet                                        | 28                    |
| 4    |      | Journal of the American Medical Association   | 26                    |
| 5    |      | Annals of Internal Medicine                   | 19                    |
| 6    |      | Archives of Internal Medicine                 | 15                    |
| 7    |      | American Journal of Obstetrics and Gynecology | 13                    |
| 7    |      | Obstetrics and Gynecology                     | 13                    |

ZONE I contains 8 journal titles (4.8%) that produced 191 documents (33.3%)

|    |    |                                                        |    |
|----|----|--------------------------------------------------------|----|
| 8  | II | Cancer                                                 | 12 |
| 9  |    | American Journal of Medicine                           | 9  |
| 9  |    | Medical Journal of Australia                           | 9  |
| 10 |    | Chest                                                  | 7  |
| 10 |    | Current Therapeutic Research                           | 7  |
| 10 |    | Journal of Clinical Endocrinology and Metabolism       | 7  |
| 11 |    | American Review of Respiratory Disease                 | 6  |
| 11 |    | Canadian Medical Association Journal                   | 6  |
| 11 |    | Circulation; Journal of the American Heart Association | 6  |
| 11 |    | Current Medical Research Opinion                       | 6  |
| 11 |    | Diabetes                                               | 6  |
| 11 |    | Medical Clinics of North America                       | 6  |
| 11 |    | Southern Medical Journal                               | 6  |
| 12 |    | American Journal of Hospital Pharmacy                  | 5  |
| 12 |    | American Journal of Surgery                            | 5  |
| 12 |    | Archives of Neurology                                  | 5  |
| 12 |    | Archives of Surgery                                    | 5  |
| 12 |    | British Journal of Surgery                             | 5  |
| 12 |    | Cardiovascular Clinics                                 | 5  |
| 12 |    | Clinical Obstetrics and Gynecology                     | 5  |
| 12 |    | Drugs                                                  | 5  |
| 12 |    | Gastroenterology                                       | 5  |
| 12 |    | Medical Letter on Drugs and Therapeutics               | 5  |
| 12 |    | New York State Journal of Medicine                     | 5  |
| 12 |    | Postgraduate Medicine                                  | 5  |
| 12 |    | Western Journal of Medicine                            | 5  |
| 13 |    | Acta Medica Scandinavica                               | 4  |
| 13 |    | American Family Physician                              | 4  |
| 13 |    | American Journal of Cardiology                         | 4  |

Journals, Drug Therapy, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                        | ABSOLUTE<br>FREQUENCY |
|------|------|--------------------------------------|-----------------------|
| 13   | II   | American Journal of Gastroenterology | 4                     |
| 13   |      | Journal of Clinical Investigation    | 4                     |
| 13   |      | Seminars in Drug Treatment           | 4                     |
| 13   |      | Surgery, Gynecology and Obstetrics   | 4                     |

ZONE II contains 33 journal titles (19.8%) that produced 186 documents (32.4%)

|    |     |                                                                           |   |
|----|-----|---------------------------------------------------------------------------|---|
| 14 | III | Acta Chirurgica Scandinavica                                              | 3 |
| 14 |     | Advances in Experimental Medicine and Biology                             | 3 |
| 14 |     | American Journal of Psychiatry                                            | 3 |
| 14 |     | American Surgeon                                                          | 3 |
| 14 |     | Arthritis and Rheumatism                                                  | 3 |
| 14 |     | British Journal of Venereal Diseases                                      | 3 |
| 14 |     | Clinical Plastic Surgery                                                  | 3 |
| 14 |     | Geriatrics                                                                | 3 |
| 14 |     | Journal of the American Geriatric Society                                 | 3 |
| 14 |     | Journal of Reproductive Medicine                                          | 3 |
| 14 |     | Journal of Urology                                                        | 3 |
| 14 |     | Medical Annals of the District of Columbia                                | 3 |
| 14 |     | Pediatrics                                                                | 3 |
| 14 |     | Postgraduate Medical Journal                                              | 3 |
| 14 |     | Practitioner                                                              | 3 |
| 14 |     | Psychosomatics                                                            | 3 |
| 14 |     | Scandinavian Journal of Haematology                                       | 3 |
| 14 |     | Scandinavian Journal of Respiratory Diseases                              | 3 |
| 14 |     | South African Medical Journal                                             | 3 |
| 14 |     | Urologic Clinics of North America                                         | 3 |
| 15 |     | Acta Neurologica Scandinavica                                             | 2 |
| 15 |     | Advances in Internal Medicine                                             | 2 |
| 15 |     | American Heart Journal                                                    | 2 |
| 15 |     | American Journal of the Medical Sciences                                  | 2 |
| 15 |     | American Journal of Roentgenology, Radium Therapy<br>and Nuclear Medicine | 2 |
| 15 |     | Anaesthesia                                                               | 2 |
| 15 |     | Annual Review of Medicine                                                 | 2 |
| 15 |     | Annual Review of Pharmacology                                             | 2 |
| 15 |     | Antimicrobial Agents and Chemotherapy                                     | 2 |
| 15 |     | Archives of Dermatology                                                   | 2 |
| 15 |     | Archives of General Psychiatry                                            | 2 |
| 15 |     | British Heart Journal                                                     | 2 |
| 15 |     | British Journal of Diseases of the Chest                                  | 2 |
| 15 |     | CRC Critical Reviews in Clinical Toxicology                               | 2 |
| 15 |     | DM; Disease-A-Month                                                       | 2 |

Journals, Drug Therapy, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                                    | ABSOLUTE<br>FREQUENCY |
|------|------|------------------------------------------------------------------|-----------------------|
| 15   | III  | Journal of the Canadian Dental Association                       | 2                     |
| 15   |      | Journal of the Chemical Society (Perkin I)                       | 2                     |
| 15   |      | Journal of Clinical Pathology                                    | 2                     |
| 15   |      | Journal of the National Medical Association                      | 2                     |
| 15   |      | Journal of Thoracic and Cardiovascular Surgery                   | 2                     |
| 15   |      | Metabolism                                                       | 2                     |
| 15   |      | Minnesota Medicine                                               | 2                     |
| 15   |      | Modern Treatment                                                 | 2                     |
| 15   |      | Neurology (Minneapolis)                                          | 2                     |
| 15   |      | Obstetrics and Gynecology Survey                                 | 2                     |
| 15   |      | Radiology                                                        | 2                     |
| 15   |      | Stroke; Journal of Cerebral Circulation                          | 2                     |
| 15   |      | Surgical Clinics of North America                                | 2                     |
| 15   |      | Toxicology and Applied Pharmacology                              | 2                     |
| 15   |      | Transactions of the Association of American Physicians           | 2                     |
| 15   |      | Urology                                                          | 2                     |
| 16   |      | Acta Endocrinologica                                             | 1                     |
| 16   |      | Acta Obstetricia et Gynecologica Scandinavica                    | 1                     |
| 16   |      | Acta Pharmacologica et Toxicologica                              | 1                     |
| 16   |      | Acta Psychiatrica Scandinavica                                   | 1                     |
| 16   |      | Advances in Parasitology                                         | 1                     |
| 16   |      | Advances in Surgery                                              | 1                     |
| 16   |      | American Journal of Clinical Nutrition                           | 1                     |
| 16   |      | American Journal of Diseases of Children                         | 1                     |
| 16   |      | American Journal of Nursing                                      | 1                     |
| 16   |      | American Journal of Physiology                                   | 1                     |
| 16   |      | American Journal of Tropical Medicine and Hygiene                | 1                     |
| 16   |      | Anesthesiology                                                   | 1                     |
| 16   |      | Angiology                                                        | 1                     |
| 16   |      | Annals of Allergy                                                | 1                     |
| 16   |      | Annals of Clinical Laboratory Science                            | 1                     |
| 16   |      | Annals of the New York Academy of Sciences                       | 1                     |
| 16   |      | Annals of the Rheumatic Diseases                                 | 1                     |
| 16   |      | Annals of Surgery                                                | 1                     |
| 16   |      | Archives of Physical Medicine and Rehabilitation                 | 1                     |
| 16   |      | Australian and New Zealand Journal of Medicine                   | 1                     |
| 16   |      | Australian and New Zealand Journal of Obstetrics and Gynaecology | 1                     |
| 16   |      | Australian and New Zealand Journal of Surgery                    | 1                     |
| 16   |      | Blood; Journal of Hematology                                     | 1                     |
| 16   |      | British Journal of Dermatology                                   | 1                     |
| 16   |      | British Journal of Obstetrics and Gynaecology                    | 1                     |
| 16   |      | British Journal of Psychiatry                                    | 1                     |
| 16   |      | British Journal of Radiology                                     | 1                     |
| 16   |      | British Medical Bulletin                                         | 1                     |
| 16   |      | Canadian Psychiatric Association Journal                         | 1                     |



Journals, Drug Therapy, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                                                      | ABSOLUTE<br>FREQUENCY |
|------|------|------------------------------------------------------------------------------------|-----------------------|
| 16   | III  | Cancer Chemotherapy Reports                                                        | 1                     |
| 16   |      | Chemotherapy                                                                       | 1                     |
| 16   |      | Clinical Notes on Respiratory Diseases                                             | 1                     |
| 16   |      | Clinical Pediatrics (Philadelphia)                                                 | 1                     |
| 16   |      | Clinics in Endocrinology and Metabolism                                            | 1                     |
| 16   |      | CRC Critical Reviews in Clinical Laboratory Sciences                               | 1                     |
| 16   |      | Current Problems in Pediatrics                                                     | 1                     |
| 16   |      | Danish Medical Bulletin                                                            | 1                     |
| 16   |      | Developmental Medicine and Child Neurology                                         | 1                     |
| 16   |      | Diseases of the Colon and Rectum                                                   | 1                     |
| 16   |      | Endocrinology                                                                      | 1                     |
| 16   |      | Epilepsia                                                                          | 1                     |
| 16   |      | Fertility and Sterility                                                            | 1                     |
| 16   |      | Gut                                                                                | 1                     |
| 16   |      | Gynecologic Oncology                                                               | 1                     |
| 16   |      | International Surgery                                                              | 1                     |
| 16   |      | Johns Hopkins Medical Journal                                                      | 1                     |
| 16   |      | Journal of the Arkansas Medical Society                                            | 1                     |
| 16   |      | Journal of Cardiovascular Surgery (Torino)                                         | 1                     |
| 16   |      | Journal of Clinical Pharmacology and New Drugs                                     | 1                     |
| 16   |      | Journal of the Indian Medical Association                                          | 1                     |
| 16   |      | Journal of Infectious Diseases                                                     | 1                     |
| 16   |      | Journal of Studies on Alcohol                                                      | 1                     |
| 16   |      | Journal of Trauma                                                                  | 1                     |
| 16   |      | Journal of Tropical Medicine and Hygiene                                           | 1                     |
| 16   |      | Kidney International                                                               | 1                     |
| 16   |      | Medical Times                                                                      | 1                     |
| 16   |      | Mount Sinai Journal of Medicine, New York                                          | 1                     |
| 16   |      | Nursing Times                                                                      | 1                     |
| 16   |      | Nutrition Reviews                                                                  | 1                     |
| 16   |      | Ohio State Medical Journal                                                         | 1                     |
| 16   |      | Oncology                                                                           | 1                     |
| 16   |      | Pennsylvania Medicine                                                              | 1                     |
| 16   |      | Proceedings of the National Academy of Sciences of<br>the United States of America | 1                     |
| 16   |      | Psychiatric Quarterly                                                              | 1                     |
| 16   |      | Quarterly Journal of Medicine                                                      | 1                     |
| 16   |      | Radiologic Clinics of North America                                                | 1                     |
| 16   |      | Review of Surgery                                                                  | 1                     |
| 16   |      | Scandinavian Journal of Clinical and Laboratory<br>Investigation                   | 1                     |
| 16   |      | Scandinavian Journal of Gastroenterology                                           | 1                     |
| 16   |      | Seminars in Arthritis and Rheumatism                                               | 1                     |



# Journals, Drug Therapy, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                                             | ABSOLUTE<br>FREQUENCY |
|------|------|---------------------------------------------------------------------------|-----------------------|
| 16   | III  | Surgery                                                                   | 1                     |
| 16   |      | Thrombosis et Diathesis Haemorrhagica                                     | 1                     |
| 16   |      | Transactions of the American Academy of Opthamology<br>and Otolaryngology | 1                     |
| 16   |      | Transplantation Proceedings                                               | 1                     |
| 16   |      | West Indian Medical Journal                                               | 1                     |

ZONE III contains 126 journal titles (75.4%) that produced 197 documents (34.3%)

# APPENDIX E (CONTINUED)

## JOURNAL FREQUENCY LISTS BY BROAD SUBJECT

### Journal Frequency List for Surgery

| RANK | ZONE | JOURNAL TITLE                                 | ABSOLUTE<br>FREQUENCY |
|------|------|-----------------------------------------------|-----------------------|
| 1    | I    | American Journal of Surgery                   | 32                    |
| 2    |      | Annals of Surgery                             | 24                    |
| 3    |      | Archives of Surgery                           | 22                    |
| 4    |      | New England Journal of Medicine               | 20                    |
| 5    |      | American Surgeon                              | 18                    |
| 6    |      | Chest                                         | 15                    |
| 7    |      | British Journal of Surgery                    | 14                    |
| 8    |      | Surgery, Gynecology and Obstetrics            | 13                    |
| 9    |      | American Journal of Obstetrics and Gynecology | 12                    |
| 10   |      | Surgical Clinics of North America             | 11                    |

ZONE I contains 10 journal titles (6.2%) that produced 181 documents (33.6%)

|    |    |                                                |    |
|----|----|------------------------------------------------|----|
| 11 | II | American Journal of Gastroenterology           | 10 |
| 11 |    | Cancer                                         | 10 |
| 12 |    | Acta Chirurgica Scandinavica                   | 8  |
| 12 |    | Annals of Internal Medicine                    | 8  |
| 12 |    | Journal of the American Medical Association    | 8  |
| 12 |    | Journal of Thoracic and Cardiovascular Surgery | 8  |
| 12 |    | Obstetrics and Gynecology                      | 8  |
| 12 |    | Southern Medical Journal                       | 8  |
| 13 |    | Lancet                                         | 7  |
| 13 |    | Postgraduate Medicine                          | 7  |
| 13 |    | South African Medical Journal                  | 7  |
| 13 |    | Surgery                                        | 7  |
| 14 |    | Gastroenterology                               | 6  |
| 14 |    | Geriatrics                                     | 6  |
| 14 |    | International Surgery                          | 6  |
| 15 |    | Archives of Internal Medicine                  | 5  |
| 15 |    | British Medical Journal                        | 5  |
| 15 |    | Clinical Plastic Surgery                       | 5  |
| 15 |    | Journal of Trauma                              | 5  |
| 15 |    | Obstetrics and Gynecology Survey               | 5  |
| 15 |    | Urology                                        | 5  |
| 16 |    | American Journal of Medicine                   | 4  |
| 16 |    | American Journal of Nursing                    | 4  |

# Journals, Surgery, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                       | ABSOLUTE<br>FREQUENCY |
|------|------|-----------------------------------------------------|-----------------------|
| 16   | II   | American Review of Respiratory Disease              | 4                     |
| 16   |      | Annals of Otolaryngology, Rhinology and Laryngology | 4                     |
| 16   |      | Journal of the Arkansas Medical Society             | 4                     |
| 16   |      | Plastic and Reconstructive Surgery                  | 4                     |

ZONE-II contains 27 journal titles (16.7%) that produced 168 documents (31.2%)

|    |     |                                                                           |   |
|----|-----|---------------------------------------------------------------------------|---|
| 17 | III | Annals of Thoracic Surgery                                                | 3 |
| 17 |     | Archives of Otolaryngology                                                | 3 |
| 17 |     | Australian and New Zealand Journal of Surgery                             | 3 |
| 17 |     | Clinical Obstetrics and Gynecology                                        | 3 |
| 17 |     | Clinical Orthopaedics and Related Research                                | 3 |
| 17 |     | Diseases of the Colon and Rectum                                          | 3 |
| 17 |     | Fertility and Sterility                                                   | 3 |
| 17 |     | Journal of the American Geriatrics Society                                | 3 |
| 17 |     | Journal of the American Society of Psychomatic<br>Dentistry and Medicine  | 3 |
| 17 |     | Journal of Laryngology and Otology                                        | 3 |
| 17 |     | Mayo Clinic Proceedings                                                   | 3 |
| 17 |     | Medical Journal of Australia                                              | 3 |
| 17 |     | Medical Letter on Drugs and Therapeutics                                  | 3 |
| 17 |     | New York State Journal of Medicine                                        | 3 |
| 17 |     | Scandinavian Journal of Gastroenterology                                  | 3 |
| 18 |     | Acta Medica Scandinavica                                                  | 2 |
| 18 |     | Advances in Internal Medicine                                             | 2 |
| 18 |     | Advances in Surgery                                                       | 2 |
| 18 |     | American Family Physician                                                 | 2 |
| 18 |     | American Journal of Diseases of Children                                  | 2 |
| 18 |     | American Journal of Psychiatry                                            | 2 |
| 18 |     | American Journal of Roentgenology, Radium Therapy<br>and Nuclear Medicine | 2 |
| 18 |     | Anaesthesia                                                               | 2 |
| 18 |     | Anesthesiology                                                            | 2 |
| 18 |     | Annals of the New York Academy of Sciences                                | 2 |
| 18 |     | Archives of General Psychiatry                                            | 2 |
| 18 |     | Archives of Physical Medicine and Rehabilitation                          | 2 |
| 18 |     | British Journal of Obstetrics and Gynaecology                             | 2 |
| 18 |     | Canadian Medical Association Journal                                      | 2 |
| 18 |     | Clinical Notes on Respiratory Diseases                                    | 2 |
| 18 |     | Current Therapeutic Research                                              | 2 |
| 18 |     | Gut                                                                       | 2 |
| 18 |     | International Journal of Fertility                                        | 2 |
| 18 |     | Journal of Cardiovascular Surgery (Torino)                                | 2 |

Journals, Surgery, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                                  | ABSOLUTE<br>FREQUENCY |
|------|------|----------------------------------------------------------------|-----------------------|
| 18   | III  | Journal of the National Medical Association                    | 2                     |
| 18   |      | Journal of Nuclear Medicine                                    | 2                     |
| 18   |      | Laryngoscope                                                   | 2                     |
| 18   |      | Minnesota Medicine                                             | 2                     |
| 18   |      | Nursing Times                                                  | 2                     |
| 18   |      | Ohio State Medical Journal                                     | 2                     |
| 18   |      | Oncology                                                       | 2                     |
| 18   |      | Pediatrics                                                     | 2                     |
| 18   |      | Postgraduate Medical Journal                                   | 2                     |
| 18   |      | Proceedings of the Royal Society of Medicine                   | 2                     |
| 18   |      | Progress in Surgery                                            | 2                     |
| 18   |      | Radiology                                                      | 2                     |
| 18   |      | Review of Surgery                                              | 2                     |
| 18   |      | Scandinavian Journal of Thoracic and Cardiovascular<br>Surgery | 2                     |
| 18   |      | Seminars in Drug Treatment                                     | 2                     |
| 19   |      | AANA Journal                                                   | 1                     |
| 19   |      | Acta Neurologica Scandinavica                                  | 1                     |
| 19   |      | Acta Radiologica; Diagnosis                                    | 1                     |
| 19   |      | American Heart Journal                                         | 1                     |
| 19   |      | American Journal of Cardiology                                 | 1                     |
| 19   |      | American Journal of Hospital Pharmacy                          | 1                     |
| 19   |      | American Journal of Medical Technology                         | 1                     |
| 19   |      | American Journal of Physiology                                 | 1                     |
| 19   |      | Angiology                                                      | 1                     |
| 19   |      | Annals of the Rheumatic Diseases                               | 1                     |
| 19   |      | Annual Review of Medicine                                      | 1                     |
| 19   |      | Archives of Dermatology                                        | 1                     |
| 19   |      | Archives of Neurology                                          | 1                     |
| 19   |      | Arthritis and Rheumatism                                       | 1                     |
| 19   |      | Australasian Radiology                                         | 1                     |
| 19   |      | Brain; Journal of Neurology                                    | 1                     |
| 19   |      | British Journal of Cancer                                      | 1                     |
| 19   |      | British Journal of Plastic Surgery                             | 1                     |
| 19   |      | British Journal of Psychiatry                                  | 1                     |
| 19   |      | British Journal of Radiology                                   | 1                     |
| 19   |      | British Journal of Venereal Diseases                           | 1                     |
| 19   |      | Bulletin of the New York Academy of Medicine                   | 1                     |
| 19   |      | Cardiovascular Clinics                                         | 1                     |
| 19   |      | Circulation; Journal of the American Heart Association         | 1                     |
| 19   |      | Circulation Research                                           | 1                     |
| 19   |      | Clinical Immunology and Immunopathology                        | 1                     |
| 19   |      | Clinics in Endocrinology and Metabolism                        | 1                     |
| 19   |      | Current Medical Research Opinions                              | 1                     |
| 19   |      | Digestion                                                      | 1                     |
| 19   |      | Drugs                                                          | 1                     |

# Journals, Surgery, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                     | ABSOLUTE<br>FREQUENCY |
|------|------|---------------------------------------------------|-----------------------|
| 19   | III  | Health Devices                                    | 1                     |
| 19   |      | Heart and Lung                                    | 1                     |
| 19   |      | International Anesthesiology Clinics              | 1                     |
| 19   |      | International Urology and Nephrology              | 1                     |
| 19   |      | Israel Journal of Medical Sciences                | 1                     |
| 19   |      | Johns Hopkins Medical Journal                     | 1                     |
| 19   |      | Journal of the American Dental Association        | 1                     |
| 19   |      | Journal of Bone and Joint Surgery (Am)            | 1                     |
| 19   |      | Journal of Clinical Investigation                 | 1                     |
| 19   |      | Journal of Investigative Dermatology              | 1                     |
| 19   |      | Journal of the Maine Medical Association          | 1                     |
| 19   |      | Journal of the Neurological Sciences              | 1                     |
| 19   |      | Journal of Neurosurgery                           | 1                     |
| 19   |      | Journal of the Oklahoma State Medical Association | 1                     |
| 19   |      | Journal of Oral Surgery                           | 1                     |
| 19   |      | Journal of Psychiatric Nursing                    | 1                     |
| 19   |      | Journal of Reproductive Medicine                  | 1                     |
| 19   |      | Journal of Studies on Alcohol                     | 1                     |
| 19   |      | Journal of Surgical Oncology                      | 1                     |
| 19   |      | Journal of Surgical Research                      | 1                     |
| 19   |      | Journal of Urology                                | 1                     |
| 19   |      | Kidney International                              | 1                     |
| 19   |      | Medical Annals of the District of Columbia        | 1                     |
| 19   |      | Medical Clinics of North America                  | 1                     |
| 19   |      | Medical World News                                | 1                     |
| 19   |      | Mount Sinai Journal of Medicine, New York         | 1                     |
| 19   |      | Neurology (Minneapolis)                           | 1                     |
| 19   |      | Obstetrics and Gynecology Annual                  | 1                     |
| 19   |      | Otolaryngologic Clinics of North America          | 1                     |
| 19   |      | Polish Medical Journal                            | 1                     |
| 19   |      | Practitioner                                      | 1                     |
| 19   |      | Proceedings of the National Cancer Conference     | 1                     |
| 19   |      | Progress in Cardiovascular Diseases               | 1                     |
| 19   |      | Psychosomatic Medicine                            | 1                     |
| 19   |      | Respiratory Care                                  | 1                     |
| 19   |      | RN                                                | 1                     |
| 19   |      | Scandinavian Journal of Respiratory Diseases      | 1                     |
| 19   |      | Scandinavian Journal of Urology and Nephrology    | 1                     |
| 19   |      | Seminars in Nuclear Medicine                      | 1                     |
| 19   |      | Surgery Annual                                    | 1                     |
| 19   |      | Surgical Forum                                    | 1                     |
| 19   |      | Texas Medicine                                    | 1                     |
| 19   |      | Thorax                                            | 1                     |
| 19   |      | Transplantation Proceedings                       | 1                     |
| 19   |      | Urologic Clinics of North America                 | 1                     |
| 19   |      | Western Journal of Medicine                       | 1                     |

ZONE III contains 125 journal titles (77.2%) that produced 189 documents (35.1%)



# APPENDIX E (CONTINUED)

## JOURNAL FREQUENCY LIST BY BROAD SUBJECTS

### Journal Frequency List for General Therapeutics

| RANK | ZONE | JOURNAL TITLE                                 | ABSOLUTE<br>FREQUENCY |
|------|------|-----------------------------------------------|-----------------------|
| 1    | I    | American Journal of Obstetrics and Gynecology | 25                    |
| 2    |      | Obstetrics and Gynecology                     | 19                    |
| 3    |      | Journal of the American Medical Association   | 15                    |
| 4    |      | Medical Clinics of North America              | 14                    |
| 4    |      | New England Journal of Medicine               | 14                    |
| 5    |      | British Medical Journal                       | 13                    |
| 6    |      | Clinical Obstetrics and Gynecology            | 11                    |
| 7    |      | American Journal of Surgery                   | 10                    |
| 7    |      | Surgical Clinics of North America             | 10                    |
| 8    |      | Archives of Surgery                           | 8                     |
| 8    |      | Cancer                                        | 8                     |

ZONE I contains 11 journal titles (6.4%) that produced 147 documents (30.1%)

|    |    |                                               |   |
|----|----|-----------------------------------------------|---|
| 9  | II | American Family Physician                     | 7 |
| 9  |    | British Journal of Surgery                    | 7 |
| 9  |    | Chest                                         | 7 |
| 9  |    | Clinical Plastic Surgery                      | 7 |
| 9  |    | Medical Journal of Australia                  | 7 |
| 9  |    | Postgraduate Medicine                         | 7 |
| 10 |    | American Journal of Clinical Nutrition        | 6 |
| 10 |    | American Review of Respiratory Disease        | 6 |
| 10 |    | Annals of Internal Medicine                   | 6 |
| 10 |    | Archives of Internal Medicine                 | 6 |
| 10 |    | Lancet                                        | 6 |
| 10 |    | Southern Medical Journal                      | 6 |
| 10 |    | Surgery, Gynecology and Obstetrics            | 6 |
| 11 |    | American Journal of Cardiology                | 5 |
| 11 |    | American Journal of Medicine                  | 5 |
| 11 |    | American Surgeon                              | 5 |
| 11 |    | British Journal of Obstetrics and Gynaecology | 5 |
| 11 |    | British Journal of Venereal Diseases          | 5 |
| 11 |    | Progress in Cardiovascular Diseases           | 5 |
| 12 |    | American Heart Journal                        | 4 |
| 12 |    | Annals of Surgery                             | 4 |
| 12 |    | Canadian Medical Association Journal          | 4 |
| 12 |    | Journal of Pediatrics                         | 4 |
| 12 |    | Practitioner                                  | 4 |
| 12 |    | Progress in Liver Disease                     | 4 |
| 12 |    | Seminars in Oncology                          | 4 |

ZONE II contains 26 journal titles (15.0%) that produced 142 documents (29.0%)



Journals, General Therapeutics, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                          | ABSOLUTE<br>FREQUENCY |
|------|------|--------------------------------------------------------|-----------------------|
| 13   | III  | Acta Obstetricia et Gynecologica Scandinavica          | 3                     |
| 13   |      | American Journal of Diseases of Children               | 3                     |
| 13   |      | Anaesthesia                                            | 3                     |
| 13   |      | Archives of Neurology                                  | 3                     |
| 13   |      | Current Medical Research Opinions                      | 3                     |
| 13   |      | DM: Disease-A-Month                                    | 3                     |
| 13   |      | Drugs                                                  | 3                     |
| 13   |      | Gastroenterology                                       | 3                     |
| 13   |      | Geriatrics                                             | 3                     |
| 13   |      | Journal of Urology                                     | 3                     |
| 13   |      | New York State Journal of Medicine                     | 3                     |
| 13   |      | Obstetrics and Gynecology Survey                       | 3                     |
| 13   |      | Pathology Annual                                       | 3                     |
| 13   |      | Radiology                                              | 3                     |
| 13   |      | Scandinavian Journal of Respiratory Diseases           | 3                     |
| 13   |      | South African Medical Journal                          | 3                     |
| 13   |      | Western Journal of Medicine                            | 3                     |
| 14   |      | Acta Paediatrica Scandinavica                          | 2                     |
| 14   |      | Advances in Internal Medicine                          | 2                     |
| 14   |      | American Journal of Nursing                            | 2                     |
| 14   |      | American Journal of Psychiatry                         | 2                     |
| 14   |      | Annual Review of Medicine                              | 2                     |
| 14   |      | British Heart Journal                                  | 2                     |
| 14   |      | British Journal of Anaesthesia                         | 2                     |
| 14   |      | Cancer Chemotherapy Reports                            | 2                     |
| 14   |      | Circulation; Journal of the American Heart Association | 2                     |
| 14   |      | Clinics in Endocrinology and Metabolism                | 2                     |
| 14   |      | Clinics in Gastroenterology                            | 2                     |
| 14   |      | Dental Clinics of North America                        | 2                     |
| 14   |      | Gut                                                    | 2                     |
| 14   |      | Heart and Lung                                         | 2                     |
| 14   |      | Hospital Practice                                      | 2                     |
| 14   |      | International Surgery                                  | 2                     |
| 14   |      | Journal of the American Dental Association             | 2                     |
| 14   |      | Journal of Bone and Joint Surgery(Am)                  | 2                     |
| 14   |      | Journal of Infectious Diseases                         | 2                     |
| 14   |      | Journal of Pediatric Surgery                           | 2                     |
| 14   |      | Journal of Reproductive Medicine                       | 2                     |
| 14   |      | Nursing Mirror                                         | 2                     |
| 14   |      | Nutrition Review                                       | 2                     |
| 14   |      | Oncology                                               | 2                     |
| 14   |      | Otolaryngologic Clinics of North America               | 2                     |
| 14   |      | Pediatric Clinics of North America                     | 2                     |
| 14   |      | Physical Therapy                                       | 2                     |

Journals, General Therapeutics, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                                             | ABSOLUTE<br>FREQUENCY |
|------|------|---------------------------------------------------------------------------|-----------------------|
| 14   | III  | Seminars in Drug Treatment                                                | 2                     |
| 14   |      | Surgery Annual                                                            | 2                     |
| 14   |      | Texas Medicine                                                            | 2                     |
| 15   |      | Acta Neurologica Scandinavica                                             | 1                     |
| 15   |      | Advances in Surgery                                                       | 1                     |
| 15   |      | American Journal of Clinical Pathology                                    | 1                     |
| 15   |      | American Journal of Gastroenterology                                      | 1                     |
| 15   |      | American Journal of Hospital Pharmacy                                     | 1                     |
| 15   |      | American Journal of Occupational Therapy                                  | 1                     |
| 15   |      | American Journal of Roentgenology, Radium Therapy<br>and Nuclear Medicine | 1                     |
| 15   |      | Anesthesia and Analgesia: Current Researches                              | 1                     |
| 15   |      | Anesthesiology                                                            | 1                     |
| 15   |      | Archives of Dermatology                                                   | 1                     |
| 15   |      | Archives of Disease in Childhood                                          | 1                     |
| 15   |      | Archives of Physical Medicine and Rehabilitation                          | 1                     |
| 15   |      | Arthritis and Rheumatism                                                  | 1                     |
| 15   |      | Atherosclerosis                                                           | 1                     |
| 15   |      | Australian and New Zealand Journal of Obstetrics<br>and Gynaecology       | 1                     |
| 15   |      | Australian and New Zealand Journal of Surgery                             | 1                     |
| 15   |      | Brain; Journal of Neurology                                               | 1                     |
| 15   |      | British Journal of Addiction                                              | 1                     |
| 15   |      | British Journal of Cancer                                                 | 1                     |
| 15   |      | British Journal of Dermatology                                            | 1                     |
| 15   |      | British Journal of Haematology                                            | 1                     |
| 15   |      | British Journal of Psychiatry                                             | 1                     |
| 15   |      | British Journal of Radiology                                              | 1                     |
| 15   |      | Bulletin of the New York Academy of Medicine                              | 1                     |
| 15   |      | Cardiovascular Research Center Bulletin                                   | 1                     |
| 15   |      | Clinica Chimica Acta                                                      | 1                     |
| 15   |      | Clinical Notes on Respiratory Diseases                                    | 1                     |
| 15   |      | Clinical Orthopaedics and Related Research                                | 1                     |
| 15   |      | Clinical Science and Molecular Medicine                                   | 1                     |
| 15   |      | Current Problems in Surgery                                               | 1                     |
| 15   |      | Current Therapeutic Research                                              | 1                     |
| 15   |      | Danish Medical Bulletin                                                   | 1                     |
| 15   |      | Developmental Medicine and Child Neurology                                | 1                     |
| 15   |      | Diabetes                                                                  | 1                     |
| 15   |      | Dimensions of Health Service                                              | 1                     |
| 15   |      | Epilepsia                                                                 | 1                     |
| 15   |      | Fertility and Sterility                                                   | 1                     |
| 15   |      | Gastrointestinal Endoscopy                                                | 1                     |
| 15   |      | International Anesthesiology Clinics                                      | 1                     |
| 15   |      | International Journal of Fertility                                        | 1                     |
| 15   |      | Irish Medical Journal                                                     | 1                     |
| 15   |      | Johns Hopkins Medical Journal                                             | 1                     |

Journals, General Therapeutics, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                                                          | ABSOLUTE<br>FREQUENCY |
|------|------|----------------------------------------------------------------------------------------|-----------------------|
| 15   | III  | Journal of the American Dietetic Association                                           | 1                     |
| 15   |      | Journal of Cardiovascular Surgery (Torino)                                             | 1                     |
| 15   |      | Journal of Clinical Endocrinology and Metabolism                                       | 1                     |
| 15   |      | Journal of Clinical Investigation                                                      | 1                     |
| 15   |      | Journal of Clinical Pharmacology and New Drugs                                         | 1                     |
| 15   |      | Journal of Family Practice                                                             | 1                     |
| 15   |      | Journal of Laboratory and Clinical Medicine                                            | 1                     |
| 15   |      | Journal of Laryngology and Otology                                                     | 1                     |
| 15   |      | Journal of the National Medical Association                                            | 1                     |
| 15   |      | Journal of Neurology, Neurosurgery and Psychiatry                                      | 1                     |
| 15   |      | Journal of Neurosurgery                                                                | 1                     |
| 15   |      | Journal of Oral Surgery                                                                | 1                     |
| 15   |      | Journal of Pathology                                                                   | 1                     |
| 15   |      | Journal of Psychiatric Nursing                                                         | 1                     |
| 15   |      | Journal of Surgical Research                                                           | 1                     |
| 15   |      | Journal of Thoracic and Cardiovascular Surgery                                         | 1                     |
| 15   |      | Journal of Trauma                                                                      | 1                     |
| 15   |      | Laryngoscope                                                                           | 1                     |
| 15   |      | Medical Letter on Drugs and Therapeutics                                               | 1                     |
| 15   |      | Military Medicine                                                                      | 1                     |
| 15   |      | Missouri Medicine                                                                      | 1                     |
| 15   |      | Modern Treatment                                                                       | 1                     |
| 15   |      | Nephron                                                                                | 1                     |
| 15   |      | Obstetrics and Gynecology Annual                                                       | 1                     |
| 15   |      | Ohio State Medical Journal                                                             | 1                     |
| 15   |      | Orthopedic Clinics of North America                                                    | 1                     |
| 15   |      | Pediatric Research                                                                     | 1                     |
| 15   |      | Pediatrics                                                                             | 1                     |
| 15   |      | Postgraduate Medical Journal                                                           | 1                     |
| 15   |      | Proceedings of the Royal Society of Medicine                                           | 1                     |
| 15   |      | Proceedings of the Society for Experimental Biology<br>and Medicine                    | 1                     |
| 15   |      | Progress in Biochemical Pharmacology                                                   | 1                     |
| 15   |      | Progress in Clinical Pathology                                                         | 1                     |
| 15   |      | Quarterly Journal of Medicine                                                          | 1                     |
| 15   |      | Radiologic Clinics of North America                                                    | 1                     |
| 15   |      | Research Publications of the Association for Research<br>in Nervous and Mental Disease | 1                     |
| 15   |      | Resident and Staff Physician                                                           | 1                     |
| 15   |      | Review of Surgery                                                                      | 1                     |
| 15   |      | Rocky Mountain Medical Journal                                                         | 1                     |
| 15   |      | Scandinavian Journal of Gastroenterology                                               | 1                     |
| 15   |      | Seminars in Arthritis and Rheumatism                                                   | 1                     |
| 15   |      | Seminars in Nuclear Medicine                                                           | 1                     |
| 15   |      | Surgery                                                                                | 1                     |
| 15   |      | Surgical Forum                                                                         | 1                     |

| RANK | ZONE | JOURNAL TITLE    | ABSOLUTE<br>FREQUENCY |
|------|------|------------------|-----------------------|
| 15   | III  | Thorax           | 1                     |
| 15   |      | Urology          | 1                     |
| 15   |      | Vascular Surgery | 1                     |

ZONE III contains 136 journal titles (78.6%) that produced 200 documents (40.9%)

# APPENDIX F

## JOURNAL FREQUENCY LISTS FOR DISCIPLINE AREAS

### Journal Frequency List for Internal Medicine

| RANK | ZONE | JOURNAL TITLE                               | ABSOLUTE<br>FREQUENCY |
|------|------|---------------------------------------------|-----------------------|
| 1    | I    | New England Journal of Medicine             | 93                    |
| 2    |      | Annals of Internal Medicine                 | 55                    |
| 3    |      | Medical Clinics of North America            | 40                    |
| 4    |      | British Medical Journal                     | 37                    |
| 4    |      | Journal of the American Medical Association | 37                    |
| 5    |      | American Journal of Medicine                | 32                    |
| 6    |      | Postgraduate Medicine                       | 26                    |
| 7    |      | Archives of Internal Medicine               | 21                    |
| 8    |      | American Review of Respiratory Disease      | 18                    |

ZONE I contains 9 journal titles (3.9%) that produced 359 documents (33.4%)

|    |    |                                                        |    |
|----|----|--------------------------------------------------------|----|
| 9  | II | Chest                                                  | 17 |
| 10 |    | DM; Disease-A-Month                                    | 15 |
| 11 |    | Advances in Internal Medicine                          | 14 |
| 11 |    | Diabetes                                               | 14 |
| 11 |    | Medical Journal of Australia                           | 14 |
| 11 |    | Western Journal of Medicine                            | 14 |
| 12 |    | Circulation; Journal of the American Heart Association | 13 |
| 13 |    | American Heart Journal                                 | 12 |
| 13 |    | American Journal of Surgery                            | 12 |
| 14 |    | American Journal of Cardiology                         | 11 |
| 14 |    | Cancer                                                 | 11 |
| 14 |    | Lancet                                                 | 11 |
| 15 |    | Archives of Surgery                                    | 10 |
| 15 |    | Drugs                                                  | 10 |
| 15 |    | Gastroenterology                                       | 10 |
| 15 |    | Journal of Neurosurgery                                | 10 |
| 15 |    | Practitioner                                           | 10 |
| 15 |    | Surgical Clinics of North America                      | 10 |
| 16 |    | Journal of Pediatrics                                  | 9  |
| 16 |    | Southern Medical Journal                               | 9  |
| 17 |    | American Family Physician                              | 8  |
| 17 |    | Geriatrics                                             | 8  |

Journals, Internal Medicine, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                        | ABSOLUTE<br>FREQUENCY |
|------|------|--------------------------------------|-----------------------|
| 17   | II   | Pediatrics                           | 8                     |
| 18   |      | Annual Review of Medicine            | 7                     |
| 18   |      | British Heart Journal                | 7                     |
| 18   |      | British Journal of Haematology       | 7                     |
| 18   |      | British Journal of Surgery           | 7                     |
| 18   |      | Mayo Clinic Proceedings              | 7                     |
| 18   |      | Metabolism                           | 7                     |
| 18   |      | Minnesota Medicine                   | 7                     |
| 18   |      | New York State Journal of Medicine   | 7                     |
| 18   |      | Progress in Cardiovascular Diseases  | 7                     |
| 18   |      | Radiologic Clinics of North America  | 7                     |
| 18   |      | Radiology                            | 7                     |
| 19   |      | Canadian Medical Association Journal | 6                     |
| 19   |      | Cardiovascular Clinics               | 6                     |
| 19   |      | Seminars in Hematology               | 6                     |

ZONE II contains 37 journal titles (15.9%) that produced 355 documents (33.1%)

|    |     |                                              |   |
|----|-----|----------------------------------------------|---|
| 20 | III | American Journal of Gastroenterology         | 5 |
| 20 |     | American Journal of Hospital Pharmacy        | 5 |
| 20 |     | American Journal of the Medical Sciences     | 5 |
| 20 |     | Annals of the New York Academy of Sciences   | 5 |
| 20 |     | Annals of Thoracic Surgery                   | 5 |
| 20 |     | Archives of Neurology                        | 5 |
| 20 |     | Current Therapeutic Research                 | 5 |
| 20 |     | Heart and Lung                               | 5 |
| 20 |     | Journal of Clinical Investigation            | 5 |
| 20 |     | Journal of Clinical Pharmacology             | 5 |
| 20 |     | Journal of Infectious Diseases               | 5 |
| 20 |     | Journal of Laryngology and Otology           | 5 |
| 20 |     | Laryngoscope                                 | 5 |
| 20 |     | Medicine (Baltimore)                         | 5 |
| 20 |     | South African Medical Journal                | 5 |
| 20 |     | Surgery, Gynecology and Obstetrics           | 5 |
| 21 |     | Acta Medica Scandinavica                     | 4 |
| 21 |     | Advances in Surgery                          | 4 |
| 21 |     | American Surgeon                             | 4 |
| 21 |     | Annals of Otology, Rhinology and Laryngology | 4 |
| 21 |     | Annual Review of Pharmacology                | 4 |
| 21 |     | British Journal of Radiology                 | 4 |



Journals, Internal Medicine, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                                             | ABSOLUTE<br>FREQUENCY |
|------|------|---------------------------------------------------------------------------|-----------------------|
| 21   | III  | Neurology (Minneapolis)                                                   | 4                     |
| 21   |      | Pediatric Clinics of North America                                        | 4                     |
| 22   |      | American Journal of Clinical Nutrition                                    | 3                     |
| 22   |      | American Journal of Clinical Pathology                                    | 3                     |
| 22   |      | American Journal of Diseases of Children                                  | 3                     |
| 22   |      | American Journal of Psychiatry                                            | 3                     |
| 22   |      | American Journal of Tropical Medicine and Hygiene                         | 3                     |
| 22   |      | Annals of Surgery                                                         | 3                     |
| 22   |      | British Journal of Venereal Diseases                                      | 3                     |
| 22   |      | Cardiovascular Research                                                   | 3                     |
| 22   |      | Danish Medical Bulletin                                                   | 3                     |
| 22   |      | Johns Hopkins Medical Journal                                             | 3                     |
| 22   |      | Journal of Bone and Joint Surgery (Am)                                    | 3                     |
| 22   |      | Journal of Clinical Pathology                                             | 3                     |
| 22   |      | Journal of Neurology, Neurosurgery and Psychiatry                         | 3                     |
| 22   |      | Journal of Urology                                                        | 3                     |
| 22   |      | Kidney International                                                      | 3                     |
| 22   |      | Missouri Medicine                                                         | 3                     |
| 22   |      | Modern Treatment                                                          | 3                     |
| 22   |      | Nephron                                                                   | 3                     |
| 22   |      | New Zealand Medical Journal                                               | 3                     |
| 22   |      | Obstetrics and Gynecology                                                 | 3                     |
| 22   |      | Orthopedic Clinics of North America                                       | 3                     |
| 22   |      | Proceedings of the Royal Society of Medicine                              | 3                     |
| 22   |      | Progress in Liver Diseases                                                | 3                     |
| 22   |      | Seminars in Arthritis and Rheumatism                                      | 3                     |
| 22   |      | Stroke; Journal of Cerebral Circulation                                   | 3                     |
| 22   |      | Surgery                                                                   | 3                     |
| 22   |      | Texas Medicine                                                            | 3                     |
| 22   |      | Transplantation Proceedings                                               | 3                     |
| 23   |      | Advances in Metabolic Disorders                                           | 2                     |
| 23   |      | American Journal of Nursing                                               | 2                     |
| 23   |      | American Journal of Roentgenology, Radium Therapy<br>and Nuclear Medicine | 2                     |
| 23   |      | Annals of Allergy                                                         | 2                     |
| 23   |      | Blood; Journal of Hematology                                              | 2                     |
| 23   |      | British Journal of Ophthalmology                                          | 2                     |
| 23   |      | Circulation Research                                                      | 2                     |
| 23   |      | Clinical Obstetrics and Gynecology                                        | 2                     |
| 23   |      | Clinical Pharmacology and Therapeutics                                    | 2                     |
| 23   |      | Clinical Endocrinology and Metabolism                                     | 2                     |
| 23   |      | Current Medical Research Opinion                                          | 2                     |
| 23   |      | Current Problems in Surgery                                               | 2                     |
| 23   |      | Diseases of the Nervous System                                            | 2                     |

Journals, Internal Medicine, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                      | ABSOLUTE<br>FREQUENCY |
|------|------|----------------------------------------------------|-----------------------|
| 23   | III  | Hospital Practice                                  | 2                     |
| 23   |      | Japanese Circulation Journal                       | 2                     |
| 23   |      | Journal of the National Medical Association        | 2                     |
| 23   |      | Journal of Trauma                                  | 2                     |
| 23   |      | Medical Annals of the District of Columbia         | 2                     |
| 23   |      | Medical Letter on Drugs and Therapeutics           | 2                     |
| 23   |      | Psychosomatics                                     | 2                     |
| 23   |      | Quarterly Journal of Medicine                      | 2                     |
| 23   |      | Review of Surgery                                  | 2                     |
| 23   |      | Scandinavian Journal of Haematology                | 2                     |
| 23   |      | Scandinavian Journal of Respiratory Diseases       | 2                     |
| 23   |      | Scandinavian Journal of Urology and Nephrology     | 2                     |
| 23   |      | Seminars in Drug Treatment                         | 2                     |
| 23   |      | Seminars in Nuclear Medicine                       | 2                     |
| 23   |      | Seminars in Oncology                               | 2                     |
| 23   |      | Urologic Clinics of North America                  | 2                     |
| 23   |      | Virginia Medical Monthly                           | 2                     |
| 24   |      | AANA Journal                                       | 1                     |
| 24   |      | Acta Chirurgica Scandinavica                       | 1                     |
| 24   |      | Acta Neurologica Scandinavica                      | 1                     |
| 24   |      | Acta Paediatrica Scandinavica                      | 1                     |
| 24   |      | Acta Pathologica et Microbiologica Scandinavica    | 1                     |
| 24   |      | Acta Pharmacologica et Microbiologica Scandinavica | 1                     |
| 24   |      | Acta Radiologica; Diagnosis                        | 1                     |
| 24   |      | Advances in Experimental Medicine and Biology      | 1                     |
| 24   |      | Advances in Parasitology                           | 1                     |
| 24   |      | American Journal of Epidemiology                   | 1                     |
| 24   |      | American Journal of Medical Technology             | 1                     |
| 24   |      | American Journal of Ophthalmology                  | 1                     |
| 24   |      | American Journal of Physiology                     | 1                     |
| 24   |      | Anaesthesia                                        | 1                     |
| 24   |      | Anesthesia and Analgesia; Current Researches       | 1                     |
| 24   |      | Angiology                                          | 1                     |
| 24   |      | Annals of Clinical Laboratory Science              | 1                     |
| 24   |      | Annals of the Rheumatic Diseases                   | 1                     |
| 24   |      | Applied Microbiology                               | 1                     |
| 24   |      | Archives of Dermatology                            | 1                     |
| 24   |      | Archives of Disease in Childhood                   | 1                     |
| 24   |      | Archives of Environmental Health                   | 1                     |
| 24   |      | Archives of Otolaryngology                         | 1                     |
| 24   |      | Archives of Pathology                              | 1                     |
| 24   |      | Arthritis and Rheumatism                           | 1                     |
| 24   |      | Atherosclerosis                                    | 1                     |
| 24   |      | Birth Defects                                      | 1                     |
| 24   |      | Brain; Journal of Neurology                        | 1                     |
| 24   |      | British Journal of Addiction                       | 1                     |
| 24   |      | British Journal of Anaesthesia                     | 1                     |

Journals, Internal Medicine, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                                                        | ABSOLUTE<br>FREQUENCY |
|------|------|--------------------------------------------------------------------------------------|-----------------------|
| 24   | III  | British Journal of Dermatology                                                       | 1                     |
| 24   |      | British Journal of Psychiatry                                                        | 1                     |
| 24   |      | British Journal of Urology                                                           | 1                     |
| 24   |      | British Medical Bulletin                                                             | 1                     |
| 24   |      | Bulletin of the World Health Organization                                            | 1                     |
| 24   |      | CA; Cancer Journal for Clinicians                                                    | 1                     |
| 24   |      | Canadian Anaesthetists' Society Journal                                              | 1                     |
| 24   |      | Canadian Journal of Public Health                                                    | 1                     |
| 24   |      | Cancer Chemotherapy Reports                                                          | 1                     |
| 24   |      | Cardiology                                                                           | 1                     |
| 24   |      | Cardiovascular Research Center Bulletin                                              | 1                     |
| 24   |      | Cleveland Clinic Quarterly                                                           | 1                     |
| 24   |      | Clinical Notes on Respiratory Diseases                                               | 1                     |
| 24   |      | Clinical Orthopaedics and Related Research                                           | 1                     |
| 24   |      | Clinical Science                                                                     | 1                     |
| 24   |      | Clinical Science and Molecular Medicine                                              | 1                     |
| 24   |      | CRC Critical Reviews in Clinical Laboratory Sciences                                 | 1                     |
| 24   |      | Critical Care Medicine                                                               | 1                     |
| 24   |      | Dental Clinics of North America                                                      | 1                     |
| 24   |      | Developmental Medicine and Child Neurology                                           | 1                     |
| 24   |      | Digestion                                                                            | 1                     |
| 24   |      | Dimensions of Health Service                                                         | 1                     |
| 24   |      | Diseases of the Colon and Rectum                                                     | 1                     |
| 24   |      | Federation Proceedings; Federation of American<br>Societies for Experimental Biology | 1                     |
| 24   |      | Fertility and Sterility                                                              | 1                     |
| 24   |      | Hospitals                                                                            | 1                     |
| 24   |      | International Journal of Dermatology                                                 | 1                     |
| 24   |      | International Urology and Nephrology                                                 | 1                     |
| 24   |      | Investigative Ophthalmology                                                          | 1                     |
| 24   |      | Israel Journal of Medical Sciences                                                   | 1                     |
| 24   |      | Japanese Heart Journal                                                               | 1                     |
| 24   |      | Journal of Allergy and Clinical Immunology                                           | 1                     |
| 24   |      | Journal of the American Dietetic Association                                         | 1                     |
| 24   |      | Journal of the American Geriatrics Society                                           | 1                     |
| 24   |      | Journal of the American Pharmaceutical Association                                   | 1                     |
| 24   |      | Journal of the Arkansas Medical Society                                              | 1                     |
| 24   |      | Journal of Clinical Endocrinology and Metabolism                                     | 1                     |
| 24   |      | Journal of the Kansas Medical Society                                                | 1                     |
| 24   |      | Journal of the Maine Medical Association                                             | 1                     |
| 24   |      | Journal of Parasitology                                                              | 1                     |
| 24   |      | Journal of Pharmacology and Experimental Therapeutics                                | 1                     |
| 24   |      | Journal of Psychosomatic Research                                                    | 1                     |
| 24   |      | Journal of the Royal College of Surgeons of Edinburgh                                | 1                     |
| 24   |      | Journal of Studies on Alcohol                                                        | 1                     |
| 24   |      | Journal of Surgical Research                                                         | 1                     |
| 24   |      | Journal of Thoracic and Cardiovascular Surgery                                       | 1                     |
| 24   |      | Journal of Tropical Medicine and Hygiene                                             | 1                     |

Journals, Internal Medicine, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                                            | ABSOLUTE<br>FREQUENCY |
|------|------|--------------------------------------------------------------------------|-----------------------|
| 24   | III  | Medicine and Biology                                                     | 1                     |
| 24   |      | Military Medicine                                                        | 1                     |
| 24   |      | National Cancer Institute Monographs                                     | 1                     |
| 24   |      | Nebraska Journal of Medicine                                             | 1                     |
| 24   |      | North Carolina Medical Journal                                           | 1                     |
| 24   |      | Nutrition Reviews                                                        | 1                     |
| 24   |      | Obstetrics and Gynecology Survey                                         | 1                     |
| 24   |      | Oral Surgery, Oral Medicine and Oral Pathology                           | 1                     |
| 24   |      | Otolaryngologic Clinics of North America                                 | 1                     |
| 24   |      | Pennsylvania Medicine                                                    | 1                     |
| 24   |      | Pharmacological Reviews                                                  | 1                     |
| 24   |      | Polish Medical Journal                                                   | 1                     |
| 24   |      | Proceedings of the National Cancer Conference                            | 1                     |
| 24   |      | Progress in Biochemical Pharmacology                                     | 1                     |
| 24   |      | Rational Drug Therapy                                                    | 1                     |
| 24   |      | Respiration; International Review of Thoracic Diseases                   | 1                     |
| 24   |      | RN                                                                       | 1                     |
| 24   |      | Rocky Mountain Medical Journal                                           | 1                     |
| 24   |      | Scandinavian Journal of Gastroenterology                                 | 1                     |
| 24   |      | Scandinavian Journal of Rheumatology                                     | 1                     |
| 24   |      | Seminars in Roentgenology                                                | 1                     |
| 24   |      | Thrombosis et Diathesis Haemorrhagica                                    | 1                     |
| 24   |      | Transactions of the American Academy of Ophthalmology and Otolaryngology | 1                     |
| 24   |      | Transactions of the American Neurological Association                    | 1                     |
| 24   |      | Transactions of the Association of American Physicians                   | 1                     |
| 24   |      | Tropical Diseases Bulletin                                               | 1                     |
| 24   |      | Zeitschrift fur Klinische Chemie und Klinische Biochemie                 | 1                     |

ZONE III contains 186 journal titles (80.1%) that produced 360 documents (33.5%)

# APPENDIX F (CONTINUED)

## JOURNAL FREQUENCY LISTS FOR DISCIPLINE AREAS

### Journal Frequency List for Family Practice

| RANK | ZONE | JOURNAL TITLE                                          | ABSOLUTE<br>FREQUENCY |
|------|------|--------------------------------------------------------|-----------------------|
| 1    | I    | New England Journal of Medicine                        | 27                    |
| 2    |      | Lancet                                                 | 18                    |
| 3    |      | Journal of the American Medical Association            | 15                    |
| 4    |      | Circulation; Journal of the American Heart Association | 13                    |
| 5    |      | Annals of Internal Medicine                            | 12                    |
| 6    |      | American Heart Journal                                 | 10                    |
| 7    |      | Medical Clinics of North America                       | 9                     |
| 7    |      | Pediatrics                                             | 9                     |
| 8    |      | American Journal of Cardiology                         | 8                     |
| 8    |      | British Medical Journal                                | 8                     |
| 8    |      | Cancer                                                 | 8                     |

ZONE I contains 11 journal titles (8.1%) that produced 137 documents (36.2%)

|    |    |                                                                           |   |
|----|----|---------------------------------------------------------------------------|---|
| 9  | II | Chest                                                                     | 6 |
| 9  |    | Gastroenterology                                                          | 6 |
| 10 |    | American Journal of Medicine                                              | 5 |
| 10 |    | Cardiovascular Clinics                                                    | 5 |
| 10 |    | Geriatrics                                                                | 5 |
| 10 |    | Hospitals                                                                 | 5 |
| 10 |    | International Journal of Clinical Pharmacology,<br>Therapy and Toxicology | 5 |
| 10 |    | Journal of Clinical Endocrinology and Metabolism                          | 5 |
| 10 |    | New York State Journal of Medicine                                        | 5 |
| 11 |    | Anesthesia and Analgesia; Current Researches                              | 4 |
| 11 |    | Archives of Internal Medicine                                             | 4 |
| 11 |    | Archives of Neurology                                                     | 4 |
| 11 |    | British Journal of Venereal Diseases                                      | 4 |
| 11 |    | Clinical Obstetrics and Gynecology                                        | 4 |
| 11 |    | DM; Disease-A-Month                                                       | 4 |
| 11 |    | Medical Journal of Australia                                              | 4 |
| 11 |    | Nutrition Review                                                          | 4 |
| 11 |    | Surgical Clinics of North America                                         | 4 |
| 12 |    | Acta Neurologica Scandinavica                                             | 3 |
| 12 |    | Archives of Dermatology                                                   | 3 |



Journals, Family Practice, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                        | ABSOLUTE<br>FREQUENCY |
|------|------|--------------------------------------|-----------------------|
| 12   | II   | Archives of Surgery                  | 3                     |
| 12   |      | Canadian Medical Association Journal | 3                     |
| 12   |      | Diabetes                             | 3                     |
| 12   |      | Journal of Urology                   | 3                     |
| 12   |      | Medicine (Baltimore)                 | 3                     |
| 12   |      | Postgraduate Medicine                | 3                     |
| 12   |      | Practitioner                         | 3                     |
| 12   |      | Progress in Liver Diseases           | 3                     |
| 12   |      | Southern Medical Journal             | 3                     |

ZONE II contains 29 journal titles (21.3%) that produced 116 documents (30.7%)

|    |     |                                                      |   |
|----|-----|------------------------------------------------------|---|
| 13 | III | Advances in Internal Medicine                        | 2 |
| 13 |     | American Family Physician                            | 2 |
| 13 |     | American Journal of Clinical Nutrition               | 2 |
| 13 |     | American Journal of Clinical Pathology               | 2 |
| 13 |     | Annals of Clinical Laboratory Sciences               | 2 |
| 13 |     | Annals of the New York Academy of Sciences           | 2 |
| 13 |     | Annual Review of Medicine                            | 2 |
| 13 |     | Archives of Physical Medicine and Rehabilitation     | 2 |
| 13 |     | Arthritis and Rheumatism                             | 2 |
| 13 |     | British Journal of Dermatology                       | 2 |
| 13 |     | CRC Critical Reviews in Clinical Toxicology          | 2 |
| 13 |     | Gerontologia Clinica                                 | 2 |
| 13 |     | Heart and Lung                                       | 2 |
| 13 |     | Journal of the Chemical Society (Perkin I)           | 2 |
| 13 |     | Journal of Clinical Investigation                    | 2 |
| 13 |     | Journal of Pediatrics                                | 2 |
| 13 |     | Journal of the Royal College of Physicians of London | 2 |
| 13 |     | Journal of Surgical Oncology                         | 2 |
| 13 |     | Metabolism                                           | 2 |
| 13 |     | Minnesota Medicine                                   | 2 |
| 13 |     | Modern Treatment                                     | 2 |
| 13 |     | Nephron                                              | 2 |
| 13 |     | Orthopedic Clinics of North America                  | 2 |
| 13 |     | Postgraduate Medical Journal                         | 2 |
| 13 |     | Scandinavian Journal of Respiratory Diseases         | 2 |
| 13 |     | Seminars in Hematology                               | 2 |
| 13 |     | South African Medical Journal                        | 2 |
| 13 |     | Toxicology and Applied Pharmacology                  | 2 |
| 13 |     | Western Journal of Medicine                          | 2 |



Journals, Family Practice, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                                             | ABSOLUTE<br>FREQUENCY |
|------|------|---------------------------------------------------------------------------|-----------------------|
| 14   | III  | Acta Cardiologica                                                         | 1                     |
| 14   |      | Acta Psychiatrica Scandinavica                                            | 1                     |
| 14   |      | American Journal of Digestive Diseases                                    | 1                     |
| 14   |      | American Journal of the Medical Sciences                                  | 1                     |
| 14   |      | American Journal of Nursing                                               | 1                     |
| 14   |      | American Journal of Obstetrics and Gynecology                             | 1                     |
| 14   |      | American Journal of Occupational Therapy                                  | 1                     |
| 14   |      | American Journal of Physiology                                            | 1                     |
| 14   |      | American Journal of Roentgenology, Radium Therapy<br>and Nuclear Medicine | 1                     |
| 14   |      | American Journal of Surgery                                               | 1                     |
| 14   |      | American Review of Respiratory Disease                                    | 1                     |
| 14   |      | Anaesthesia                                                               | 1                     |
| 14   |      | Anesthesiology                                                            | 1                     |
| 14   |      | Angiology                                                                 | 1                     |
| 14   |      | Annual Review of Pharmacology                                             | 1                     |
| 14   |      | Australian and New Zealand Journal of Medicine                            | 1                     |
| 14   |      | British Heart Journal                                                     | 1                     |
| 14   |      | British Journal of Ophthalmology                                          | 1                     |
| 14   |      | Canadian Journal of Public Health                                         | 1                     |
| 14   |      | Canadian Psychiatric Association Journal                                  | 1                     |
| 14   |      | Cancer Chemotherapy Reports                                               | 1                     |
| 14   |      | Cardiology                                                                | 1                     |
| 14   |      | Clinical Orthopaedics and Related Research                                | 1                     |
| 14   |      | Clinical Pediatrics (Philadelphia)                                        | 1                     |
| 14   |      | Clinical Endocrinology and Metabolism                                     | 1                     |
| 14   |      | Clinics in Gastroenterology                                               | 1                     |
| 14   |      | Current Medical Research Opinions                                         | 1                     |
| 14   |      | Current Therapeutic Research                                              | 1                     |
| 14   |      | Developmental Medicine and Child Neurology                                | 1                     |
| 14   |      | Gastrointestinal Endoscopy                                                | 1                     |
| 14   |      | Gut                                                                       | 1                     |
| 14   |      | Human Pathology                                                           | 1                     |
| 14   |      | Japanese Circulation Journal                                              | 1                     |
| 14   |      | Journal of the American Geriatrics Society                                | 1                     |
| 14   |      | Journal of Chronic Diseases                                               | 1                     |
| 14   |      | Journal of Clinical Pathology                                             | 1                     |
| 14   |      | Journal of Electrocardiology                                              | 1                     |
| 14   |      | Journal of the Louisiana State Medical Society                            | 1                     |
| 14   |      | Journal of Laboratory and Clinical Medicine                               | 1                     |
| 14   |      | Journal of Medical Education                                              | 1                     |
| 14   |      | Journal of the National Cancer Institute                                  | 1                     |
| 14   |      | Journal of Neurology, Neurosurgery and Psychiatry                         | 1                     |
| 14   |      | Journal of Reproductive Medicine                                          | 1                     |
| 14   |      | Journal of Surgical Research                                              | 1                     |
| 14   |      | Kidney International                                                      | 1                     |

# Journals, Family Practice, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                                                      | ABSOLUTE<br>FREQUENCY |
|------|------|------------------------------------------------------------------------------------|-----------------------|
| 14   | III  | Medical Care                                                                       | 1                     |
| 14   |      | Medical Times                                                                      | 1                     |
| 14   |      | Military Medicine                                                                  | 1                     |
| 14   |      | Modern Concepts of Cardiovascular Disease                                          | 1                     |
| 14   |      | Modern Nursing Home                                                                | 1                     |
| 14   |      | Neurology (Minneapolis)                                                            | 1                     |
| 14   |      | Northwest Medicine                                                                 | 1                     |
| 14   |      | Nursing Outlook                                                                    | 1                     |
| 14   |      | Obstetrics and Gynecology                                                          | 1                     |
| 14   |      | Pediatric Clinics of North America                                                 | 1                     |
| 14   |      | Physical Therapy                                                                   | 1                     |
| 14   |      | Proceedings of the National Academy of Sciences of<br>the United States of America | 1                     |
| 14   |      | Radiology                                                                          | 1                     |
| 14   |      | Resident and Staff Physician                                                       | 1                     |
| 14   |      | Scandinavian Journal of Clinical and Laboratory<br>Investigation                   | 1                     |
| 14   |      | Stroke; Journal of Cerebral Circulation                                            | 1                     |
| 14   |      | Surgery                                                                            | 1                     |
| 14   |      | Surgery, Gynecology and Obstetrics                                                 | 1                     |
| 14   |      | Thorax                                                                             | 1                     |
| 14   |      | Transactions of the Association of American Physicians                             | 1                     |
| 14   |      | Urology                                                                            | 1                     |
| 14   |      | West Indian Medical Journal                                                        | 1                     |

ZONE III contains 96 journal titles (70.6%) that produced 125 documents (33.1%)

# APPENDIX F (CONTINUED)

## JOURNAL FREQUENCY LISTS FOR DISCIPLINE AREAS

### Journal Frequency List for Pediatrics

| RANK | ZONE | JOURNAL TITLE                               | ABSOLUTE<br>FREQUENCY |
|------|------|---------------------------------------------|-----------------------|
| 1    | I    | Lancet                                      | 11                    |
| 2    |      | Pediatrics                                  | 10                    |
| 3    |      | Southern Medical Journal                    | 9                     |
| 4    |      | Journal of Pediatrics                       | 8                     |
| 5    |      | American Journal of Diseases of Children    | 7                     |
| 6    |      | Developmental Medicine and Child Neurology  | 6                     |
| 7    |      | Acta Paediatrica Scandinavica               | 5                     |
| 7    |      | British Medical Journal                     | 5                     |
| 7    |      | Journal of the American Medical Association | 5                     |
| 7    |      | New England Journal of Medicine             | 5                     |
| 7    |      | Pediatric Clinics of North America          | 5                     |

ZONE I contains 11 journal titles (9.6%) that produced 76 documents (33.3%)

|    |    |                                                                           |   |
|----|----|---------------------------------------------------------------------------|---|
| 8  | II | Archives of Dermatology                                                   | 4 |
| 8  |    | Archives of Disease in Childhood                                          | 4 |
| 8  |    | Cancer                                                                    | 4 |
| 9  |    | American Journal of Roentgenology, Radium Therapy<br>and Nuclear Medicine | 3 |
| 9  |    | American Journal of Surgery                                               | 3 |
| 9  |    | Archives of Otolaryngology                                                | 3 |
| 9  |    | Laryngoscope                                                              | 3 |
| 9  |    | Mayo Clinic Proceedings                                                   | 3 |
| 9  |    | Medical Journal of Australia                                              | 3 |
| 9  |    | South African Medical Journal                                             | 3 |
| 9  |    | Surgery, Gynecology and Obstetrics                                        | 3 |
| 10 |    | American Journal of Human Genetics                                        | 2 |
| 10 |    | American Journal of Obstetrics and Gynecology                             | 2 |
| 10 |    | American Journal of Ophthalmology                                         | 2 |
| 10 |    | Annals of Internal Medicine                                               | 2 |
| 10 |    | Annals of Thoracic Surgery                                                | 2 |
| 10 |    | Antimicrobial Agents and Chemotherapy                                     | 2 |
| 10 |    | Archives of Surgery                                                       | 2 |
| 10 |    | Birth Defects                                                             | 2 |

# Journals, Pediatrics, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                          | ABSOLUTE<br>FREQUENCY |
|------|------|--------------------------------------------------------|-----------------------|
| 10   | II   | British Journal of Surgery                             | 2                     |
| 10   |      | Chest                                                  | 2                     |
| 10   |      | Circulation; Journal of the American Heart Association | 2                     |
| 10   |      | Clinica Chimica Acta                                   | 2                     |
| 10   |      | Clinical Obstetrics and Gynecology                     | 2                     |
| 10   |      | Clinical Pediatrics (Philadelphia)                     | 2                     |
| 10   |      | Gastroenterology                                       | 2                     |
| 10   |      | Journal of the American Psychoanalytic Association     | 2                     |
| 10   |      | Journal of Laryngology and Otology                     | 2                     |
| 10   |      | Journal of Thoracic and Cardiovascular Surgery         | 2                     |
| 10   |      | Medical Letter on Drugs and Therapeutics               | 2                     |
| 10   |      | Nutrition Reviews                                      | 2                     |
| 10   |      | Obstetrics and Gynecology                              | 2                     |
| 10   |      | Progress in Cardiovascular Diseases                    | 2                     |
| 10   |      | Western Journal of Medicine                            | 2                     |

ZONE II contains 34 journal titles (29.6%) that produced 82 documents (36.0%)

|    |     |                                               |   |
|----|-----|-----------------------------------------------|---|
| 11 | III | Acta Neurologica Scandinavica                 | 1 |
| 11 |     | Advances in Pediatrics                        | 1 |
| 11 |     | American Family Physician                     | 1 |
| 11 |     | American Journal of Clinical Nutrition        | 1 |
| 11 |     | American Journal of Clinical Pathology        | 1 |
| 11 |     | American Journal of Gastroenterology          | 1 |
| 11 |     | American Journal of Medicine                  | 1 |
| 11 |     | American Journal of Public Health             | 1 |
| 11 |     | American Review of Respiratory Disease        | 1 |
| 11 |     | Anesthesiology                                | 1 |
| 11 |     | Annals of Otology, Rhinology and Laryngology  | 1 |
| 11 |     | Annals of Surgery                             | 1 |
| 11 |     | Archives of Internal Medicine                 | 1 |
| 11 |     | Archives of Neurology                         | 1 |
| 11 |     | Archives of Ophthalmology                     | 1 |
| 11 |     | Archives of Pathology                         | 1 |
| 11 |     | Arthritis and Rheumatism                      | 1 |
| 11 |     | Australasian Radiology                        | 1 |
| 11 |     | Australian and New Zealand Journal of Surgery | 1 |
| 11 |     | British Journal of Anaesthesia                | 1 |
| 11 |     | British Journal of Medical Psychology         | 1 |
| 11 |     | British Journal of Obstetrics and Gynaecology | 1 |
| 11 |     | British Journal of Radiology                  | 1 |
| 11 |     | British Journal of Urology                    | 1 |
| 11 |     | Canadian Anesthetists' Society Journal        | 1 |

| RANK | ZONE | JOURNAL TITLE                                                                      | ABSOLUTE<br>FREQUENCY |
|------|------|------------------------------------------------------------------------------------|-----------------------|
| 11   | III  | Canadian Medical Association Journal                                               | 1                     |
| 11   |      | Chemotherapy                                                                       | 1                     |
| 11   |      | Cleveland Clinic Quarterly                                                         | 1                     |
| 11   |      | Clinical Immunology and Immunopathology                                            | 1                     |
| 11   |      | Clinical Toxicology                                                                | 1                     |
| 11   |      | Clinics in Gastroenterology                                                        | 1                     |
| 11   |      | CRC Critical Reviews in Clinical Laboratory<br>Sciences                            | 1                     |
| 11   |      | Current Therapeutic Research                                                       | 1                     |
| 11   |      | Diabetes                                                                           | 1                     |
| 11   |      | DM; Disease-A-Month                                                                | 1                     |
| 11   |      | Experientia                                                                        | 1                     |
| 11   |      | Eye, Ear, Nose and Throat Monthly                                                  | 1                     |
| 11   |      | Gut                                                                                | 1                     |
| 11   |      | Human Pathology                                                                    | 1                     |
| 11   |      | Illinois Medical Journal                                                           | 1                     |
| 11   |      | Journal of Experimental Medicine                                                   | 1                     |
| 11   |      | Journal of Immunology                                                              | 1                     |
| 11   |      | Journal of Infectious Diseases                                                     | 1                     |
| 11   |      | Journal of Investigative Dermatology                                               | 1                     |
| 11   |      | Journal of the National Medical Association                                        | 1                     |
| 11   |      | Journal of Neurology, Neurosurgery and Psychiatry                                  | 1                     |
| 11   |      | Journal of Neurosurgery                                                            | 1                     |
| 11   |      | Journal of Pediatric Surgery                                                       | 1                     |
| 11   |      | Journal of Psychosomatic Research                                                  | 1                     |
| 11   |      | Journal of Trauma                                                                  | 1                     |
| 11   |      | Journal of Tropical Medicine and Hygiene                                           | 1                     |
| 11   |      | Journal of Urology                                                                 | 1                     |
| 11   |      | Military Medicine                                                                  | 1                     |
| 11   |      | Minnesota Medicine                                                                 | 1                     |
| 11   |      | Nursing Times                                                                      | 1                     |
| 11   |      | Pediatric Research                                                                 | 1                     |
| 11   |      | Perspectives in Psychiatric Care                                                   | 1                     |
| 11   |      | Postgraduate Medical Journal                                                       | 1                     |
| 11   |      | Proceedings of the National Academy of Sciences<br>of the United States of America | 1                     |
| 11   |      | Psychological Bulletin                                                             | 1                     |
| 11   |      | Radiography                                                                        | 1                     |
| 11   |      | Review of Surgery                                                                  | 1                     |
| 11   |      | Rheumatology                                                                       | 1                     |
| 11   |      | Scandinavian Journal of Infectious Diseases                                        | 1                     |
| 11   |      | South African Journal of Medical Science                                           | 1                     |
| 11   |      | Surgery                                                                            | 1                     |
| 11   |      | Texas Medicine                                                                     | 1                     |
| 11   |      | Thrombosis et Diathesis Haemorrhagica                                              | 1                     |

# Journals, Pediatrics, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                     | ABSOLUTE<br>FREQUENCY |
|------|------|-----------------------------------|-----------------------|
| 11   | III  | Urology                           | 1                     |
| 11   |      | Urologic Clinics of North America | 1                     |

ZONE III contains 70 journal titles (60.9%) that produced 70 documents (30.7%)



# APPENDIX F (CONTINUED)

## JOURNAL FREQUENCY LISTS FOR DISCIPLINE AREAS

### Journal Frequency List for Surgery

| RANK | ZONE | JOURNAL TITLE                   | ABSOLUTE<br>FREQUENCY |
|------|------|---------------------------------|-----------------------|
| 1    | I    | American Journal of Surgery     | 29                    |
| 2    |      | Annals of Surgery               | 22                    |
| 3    |      | Archives of Surgery             | 16                    |
| 4    |      | American Surgeon                | 14                    |
| 5    |      | Chest                           | 13                    |
| 5    |      | New England Journal of Medicine | 13                    |
| 6    |      | British Journal of Surgery      | 11                    |
| 7    |      | Cancer                          | 10                    |

ZONE I contains 8 journal titles (6.3%) that produced 128 documents (33.0%)

|    |    |                                                |   |
|----|----|------------------------------------------------|---|
| 8  | II | Surgical Clinics of North America              | 9 |
| 9  |    | American Journal of Gastroenterology           | 8 |
| 9  |    | Surgery, Gynecology and Obstetrics             | 8 |
| 10 |    | Acta Chirurgica Scandinavica                   | 7 |
| 10 |    | Annals of Internal Medicine                    | 7 |
| 10 |    | Postgraduate Medicine                          | 7 |
| 11 |    | Journal of Thoracic and Cardiovascular Surgery | 6 |
| 11 |    | Lancet                                         | 6 |
| 11 |    | Surgery                                        | 6 |
| 12 |    | Clinical Plastic Surgery                       | 5 |
| 12 |    | Gastroenterology                               | 5 |
| 12 |    | Geriatrics                                     | 5 |
| 12 |    | Journal of the American Medical Association    | 5 |
| 12 |    | Journal of Trauma                              | 5 |
| 12 |    | Southern Medical Journal                       | 5 |
| 13 |    | American Journal of Medicine                   | 4 |
| 13 |    | American Journal of Nursing                    | 4 |
| 13 |    | American Review of Respiratory Disease         | 4 |
| 13 |    | Archives of Internal Medicine                  | 4 |
| 13 |    | British Medical Journal                        | 4 |
| 14 |    | Annals of Thoracic Surgery                     | 3 |
| 14 |    | Diseases of the Colon and Rectum               | 3 |
| 14 |    | International Surgery                          | 3 |
| 14 |    | Journal of the American Geriatric Society      | 3 |

# Journals, Surgery, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                            | ABSOLUTE<br>FREQUENCY |
|------|------|------------------------------------------|-----------------------|
| 14   | II   | Journal of the Arkansas Medical Society  | 3                     |
| 14   |      | Journal of Laryngology and Otology       | 3                     |
| 14   |      | Mayo Clinic Proceedings                  | 3                     |
| 14   |      | Medical Letter on Drugs and Therapeutics | 3                     |
| 14   |      | Plastic and Reconstructive Surgery       | 3                     |

ZONE II contains 29 journal titles (22.8%) that produced 141 documents (36.3%)

|    |     |                                                                           |   |
|----|-----|---------------------------------------------------------------------------|---|
| 15 | III | Acta Medica Scandinavica                                                  | 2 |
| 15 |     | Advances in Internal Medicine                                             | 2 |
| 15 |     | American Family Physician                                                 | 2 |
| 15 |     | American Journal of Psychiatry                                            | 2 |
| 15 |     | American Journal of Roentgenology, Radium Therapy<br>and Nuclear Medicine | 2 |
| 15 |     | Anaesthesia                                                               | 2 |
| 15 |     | Anesthesiology                                                            | 2 |
| 15 |     | Annals of the New York Academy of Sciences                                | 2 |
| 15 |     | Annals of Otology, Rhinology and Laryngology                              | 2 |
| 15 |     | Archives of General Psychiatry                                            | 2 |
| 15 |     | Archives of Otolaryngology                                                | 2 |
| 15 |     | Archives of Physical Medicine and Rehabilitation                          | 2 |
| 15 |     | Canadian Medical Association Journal                                      | 2 |
| 15 |     | Clinical Notes on Respiratory Diseases                                    | 2 |
| 15 |     | Current Therapeutic Research                                              | 2 |
| 15 |     | Gut                                                                       | 2 |
| 15 |     | Journal of Nuclear Medicine                                               | 2 |
| 15 |     | Laryngoscope                                                              | 2 |
| 15 |     | Medical Journal of Australia                                              | 2 |
| 15 |     | New York State Journal of Medicine                                        | 2 |
| 15 |     | Oncology                                                                  | 2 |
| 15 |     | Postgraduate Medical Journal                                              | 2 |
| 15 |     | Proceedings of the Royal Society of Medicine                              | 2 |
| 15 |     | Progress in Surgery                                                       | 2 |
| 15 |     | Radiology                                                                 | 2 |
| 15 |     | Scandinavian Journal of Gastroenterology                                  | 2 |
| 15 |     | Scandinavian Journal of Thoracic and Cardiovascular<br>Surgery            | 2 |
| 15 |     | Seminars in Drug Treatment                                                | 2 |
| 15 |     | South African Medical Journal                                             | 2 |
| 16 |     | Acta Neurologica Scandinavica                                             | 1 |
| 16 |     | Advances in Surgery                                                       | 1 |
| 16 |     | American Journal of Cardiology                                            | 1 |
| 16 |     | American Journal of Diseases of Children                                  | 1 |

# Journals, Surgery, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                          | ABSOLUTE<br>FREQUENCY |
|------|------|--------------------------------------------------------|-----------------------|
| 16   | III  | American Journal of Hospital Pharmacy                  | 1                     |
| 16   |      | American Journal of Medical Technology                 | 1                     |
| 16   |      | American Journal of Physiology                         | 1                     |
| 16   |      | Angiology                                              | 1                     |
| 16   |      | Annals of the Rheumatic Diseases                       | 1                     |
| 16   |      | Annual Review of Medicine                              | 1                     |
| 16   |      | Archives of Dermatology                                | 1                     |
| 16   |      | Archives of Neurology                                  | 1                     |
| 16   |      | Arthritis and Rheumatism                               | 1                     |
| 16   |      | Australian and New Zealand Journal of Surgery          | 1                     |
| 16   |      | Brain; Journal of Neurology                            | 1                     |
| 16   |      | British Journal of Cancer                              | 1                     |
| 16   |      | British Journal of Psychiatry                          | 1                     |
| 16   |      | British Journal of Radiology                           | 1                     |
| 16   |      | Circulation; Journal of the American Heart Association | 1                     |
| 16   |      | Clinical Orthopaedics and Related Research             | 1                     |
| 16   |      | Clinics in Endocrinology and Metabolism                | 1                     |
| 16   |      | Current Medical Research Opinions                      | 1                     |
| 16   |      | Digestion                                              | 1                     |
| 16   |      | Drugs                                                  | 1                     |
| 16   |      | Health Devices                                         | 1                     |
| 16   |      | Heart and Lung                                         | 1                     |
| 16   |      | International Anesthesiology Clinics                   | 1                     |
| 16   |      | Johns Hopkins Medical Journal                          | 1                     |
| 16   |      | Journal of the American Dental Association             | 1                     |
| 16   |      | Journal of Cardiovascular Surgery (Torino)             | 1                     |
| 16   |      | Journal of Investigative Dermatology                   | 1                     |
| 16   |      | Journal of the National Medical Association            | 1                     |
| 16   |      | Journal of the Neurological Sciences                   | 1                     |
| 16   |      | Journal of Neurosurgery                                | 1                     |
| 16   |      | Journal of Oral Surgery                                | 1                     |
| 16   |      | Journal of Psychiatric Nursing                         | 1                     |
| 16   |      | Journal of Studies on Alcohol                          | 1                     |
| 16   |      | Journal of Surgical Oncology                           | 1                     |
| 16   |      | Journal of Surgical Research                           | 1                     |
| 16   |      | Kidney International                                   | 1                     |
| 16   |      | Medical Annals of the District of Columbia             | 1                     |
| 16   |      | Medical World News                                     | 1                     |
| 16   |      | Minnesota Medicine                                     | 1                     |
| 16   |      | Mount Sinai Journal of Medicine, New York              | 1                     |
| 16   |      | Neurology (Minneapolis)                                | 1                     |
| 16   |      | Nursing Times                                          | 1                     |
| 16   |      | Obstetrics and Gynecology                              | 1                     |
| 16   |      | Ohio State Medical Journal                             | 1                     |
| 16   |      | Pediatrics                                             | 1                     |
| 16   |      | Polish Medical Journal                                 | 1                     |
| 16   |      | Practitioner                                           | 1                     |

# Journals, Surgery, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                 | ABSOLUTE<br>FREQUENCY |
|------|------|-----------------------------------------------|-----------------------|
| 16   | III  | Proceedings of the National Cancer Conference | 1                     |
| 16   |      | Respiratory Care                              | 1                     |
| 16   |      | Review of Surgery                             | 1                     |
| 16   |      | RN                                            | 1                     |
| 16   |      | Scandinavian Journal of Respiratory Diseases  | 1                     |
| 16   |      | Seminars in Nuclear Medicine                  | 1                     |
| 16   |      | Surgical Forum                                | 1                     |
| 16   |      | Thorax                                        | 1                     |
| 16   |      | Urology                                       | 1                     |
| 16   |      | Urologic Clinics of North America             | 1                     |

ZONE III contains 89 journal titles (70.6%) that produced 119 documents (30.7%)

# APPENDIX F (CONTINUED)

## JOURNAL FREQUENCY LISTS FOR DISCIPLINE AREAS

### Journal Frequency List for Obstetrics and Gynecology

| RANK | ZONE | JOURNAL TITLE                                 | ABSOLUTE<br>FREQUENCY |
|------|------|-----------------------------------------------|-----------------------|
| 1    | I    | American Journal of Obstetrics and Gynecology | 106                   |
| 2    |      | Obstetrics and Gynecology                     | 56                    |
| 3    |      | Clinical Obstetrics and Gynecology            | 25                    |

ZONE I contains 3 journal titles (2.2%) that produced 187 documents (35.2%)

|    |    |                                                                           |    |
|----|----|---------------------------------------------------------------------------|----|
| 4  | II | British Journal of Obstetrics and Gynaecology                             | 16 |
| 5  |    | Obstetrics and Gynecology Survey                                          | 15 |
| 6  |    | Journal of Reproductive Medicine                                          | 13 |
| 7  |    | British Medical Journal                                                   | 10 |
| 7  |    | Journal of the American Medical Association                               | 10 |
| 8  |    | Lancet                                                                    | 8  |
| 8  |    | Medical Clinics of North America                                          | 8  |
| 9  |    | Acta Obstetrica et Gynecologica Scandinavica                              | 7  |
| 9  |    | New England Journal of Medicine                                           | 7  |
| 9  |    | Progress in Cardiovascular Diseases                                       | 7  |
| 10 |    | Canadian Medical Association Journal                                      | 6  |
| 10 |    | Current Medical Research Opinions                                         | 6  |
| 10 |    | Medical Journal of Australia                                              | 6  |
| 11 |    | American Journal of Diseases of Children                                  | 5  |
| 11 |    | American Surgeon                                                          | 5  |
| 11 |    | Fertility and Sterility                                                   | 5  |
| 11 |    | International Surgery                                                     | 5  |
| 11 |    | Obstetrics and Gynecology Annual                                          | 5  |
| 11 |    | Southern Medical Journal                                                  | 5  |
| 11 |    | Urology                                                                   | 5  |
| 12 |    | Acta Geneticae Medicae et Gemellologiae                                   | 4  |
| 12 |    | American Journal of Cardiology                                            | 4  |
| 12 |    | American Journal of Roentgenology, Radium Therapy<br>and Nuclear Medicine | 4  |
| 12 |    | Archives of Internal Medicine                                             | 4  |
| 12 |    | Archives of Surgery                                                       | 4  |
| 12 |    | Journal of Pediatrics                                                     | 4  |
| 12 |    | Radiology                                                                 | 4  |
| 12 |    | Surgery, Gynecology and Obstetrics                                        | 4  |

ZONE II contains 28 journal titles (20.4%) that produced 186 documents (35.0%)

Journals, Obstetrics and Gynecology, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                                              | ABSOLUTE<br>FREQUENCY |
|------|------|----------------------------------------------------------------------------|-----------------------|
| 13   | III  | American Journal of Nursing                                                | 3                     |
| 13   |      | Developmental Medicine and Child Neurology                                 | 3                     |
| 13   |      | Diabetes                                                                   | 3                     |
| 13   |      | Drugs                                                                      | 3                     |
| 13   |      | International Journal of Fertility                                         | 3                     |
| 13   |      | Journal of the American Society of Psychosomatic<br>Dentistry and Medicine | 3                     |
| 13   |      | Journal of Clinical Endocrinology and Metabolism                           | 3                     |
| 13   |      | JOGN Nursing                                                               | 3                     |
| 13   |      | New York State Journal of Medicine                                         | 3                     |
| 13   |      | Ohio State Medical Journal                                                 | 3                     |
| 13   |      | Pathology Annual                                                           | 3                     |
| 13   |      | Postgraduate Medicine                                                      | 3                     |
| 13   |      | Practitioner                                                               | 3                     |
| 13   |      | South African Medical Journal                                              | 3                     |
| 13   |      | Western Journal of Medicine                                                | 3                     |
| 14   |      | Acta Ophthalmologica                                                       | 2                     |
| 14   |      | Advances in Experimental Medicine and Biology                              | 2                     |
| 14   |      | American Heart Journal                                                     | 2                     |
| 14   |      | Australian and New Zealand Journal of Obstetrics<br>and Gynaecology        | 2                     |
| 14   |      | Biology of the Neonate                                                     | 2                     |
| 14   |      | British Journal of Radiology                                               | 2                     |
| 14   |      | British Journal of Venereal Diseases                                       | 2                     |
| 14   |      | Bulletin of the New York Academy of Medicine                               | 2                     |
| 14   |      | Cancer                                                                     | 2                     |
| 14   |      | Clinical Endocrinology and Metabolism                                      | 2                     |
| 14   |      | Clinical Plastic Surgery                                                   | 2                     |
| 14   |      | Current Problems in Pediatrics                                             | 2                     |
| 14   |      | DM; Disease-A-Month                                                        | 2                     |
| 14   |      | Journal of the Medical Society of New Jersey                               | 2                     |
| 14   |      | Journal of the National Medical Association                                | 2                     |
| 14   |      | Journal of Pediatric Surgery                                               | 2                     |
| 14   |      | Minnesota Medicine                                                         | 2                     |
| 14   |      | Nursing Mirror                                                             | 2                     |
| 14   |      | Preventive Medicine                                                        | 2                     |
| 14   |      | Proceedings of the Royal Society of Medicine                               | 2                     |
| 14   |      | Scandinavian Journal of Urology and Nephrology                             | 2                     |
| 14   |      | Surgery                                                                    | 2                     |
| 15   |      | Acta Chirurgica Scandinavica                                               | 1                     |
| 15   |      | Acta Endocrinologica                                                       | 1                     |
| 15   |      | Acta Medica Scandinavica                                                   | 1                     |
| 15   |      | Acta Radiologica; Diagnosis                                                | 1                     |
| 15   |      | American Family Physician                                                  | 1                     |
| 15   |      | American Journal of Hospital Pharmacy                                      | 1                     |
| 15   |      | Anaesthesia                                                                | 1                     |
| 15   |      | Annals of Clinical Laboratory Science                                      | 1                     |
| 15   |      | Arizona Medicine                                                           | 1                     |



Journals, Obstetrics and Gynecology, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                                                | ABSOLUTE<br>FREQUENCY |
|------|------|------------------------------------------------------------------------------|-----------------------|
| 15   | III  | Australasian Radiology                                                       | 1                     |
| 15   |      | Bibliotheca Anatomica                                                        | 1                     |
| 15   |      | Birth Defects                                                                | 1                     |
| 15   |      | Brain; Journal of Neurology                                                  | 1                     |
| 15   |      | British Heart Journal                                                        | 1                     |
| 15   |      | British Journal of Dermatology                                               | 1                     |
| 15   |      | British Journal of Psychiatry                                                | 1                     |
| 15   |      | British Journal of Surgery                                                   | 1                     |
| 15   |      | Cancer Chemotherapy Reports                                                  | 1                     |
| 15   |      | Cancer Research                                                              | 1                     |
| 15   |      | Child Psychiatry and Human Development                                       | 1                     |
| 15   |      | Clinics in Developmental Medicine                                            | 1                     |
| 15   |      | Danish Medical Bulletin                                                      | 1                     |
| 15   |      | Dental Clinics of North America                                              | 1                     |
| 15   |      | Endocrinologia Experimentalis                                                | 1                     |
| 15   |      | Endocrinology                                                                | 1                     |
| 15   |      | Epilepsia                                                                    | 1                     |
| 15   |      | Gastroenterology                                                             | 1                     |
| 15   |      | Ghana Medical Journal                                                        | 1                     |
| 15   |      | Gynecologic Oncology                                                         | 1                     |
| 15   |      | Illinois Medical Journal                                                     | 1                     |
| 15   |      | Irish Medical Journal                                                        | 1                     |
| 15   |      | Journal of the American Dental Association                                   | 1                     |
| 15   |      | Journal of the Arkansas Medical Society                                      | 1                     |
| 15   |      | Journal of Cardiovascular Surgery (Torino)                                   | 1                     |
| 15   |      | Journal of Clinical Pathology                                                | 1                     |
| 15   |      | Journal of Family Practice                                                   | 1                     |
| 15   |      | Journal of the Indian Medical Association                                    | 1                     |
| 15   |      | Journal of Investigative Dermatology                                         | 1                     |
| 15   |      | Journal of the Irish Medical Association                                     | 1                     |
| 15   |      | Journal of Neurology, Neurosurgery and Psychiatry                            | 1                     |
| 15   |      | Journal of Nuclear Medicine                                                  | 1                     |
| 15   |      | Journal of Pathology                                                         | 1                     |
| 15   |      | Journal of the South Carolina Medical Association                            | 1                     |
| 15   |      | Journal of Surgical Research                                                 | 1                     |
| 15   |      | Journal of Urology                                                           | 1                     |
| 15   |      | Missouri Medicine                                                            | 1                     |
| 15   |      | Modern Concepts of Cardiovascular Disease                                    | 1                     |
| 15   |      | Mount Sinai Journal of Medicine, New York                                    | 1                     |
| 15   |      | Nature                                                                       | 1                     |
| 15   |      | Nova Scotia Medical Bulletin                                                 | 1                     |
| 15   |      | Ophthalmologica                                                              | 1                     |
| 15   |      | Pediatric Research                                                           | 1                     |
| 15   |      | Pediatrics                                                                   | 1                     |
| 15   |      | Physical Therapy                                                             | 1                     |
| 15   |      | Proceedings of the National Cancer Conference                                | 1                     |
| 15   |      | Proceedings of the Rudolf Virchow Medical Society<br>in the City of New York | 1                     |

# Journals, Obstetrics and Gynecology, Absolute Frequency

| RANK | ZONE | JOURNAL TITLE                                                                          | ABSOLUTE<br>FREQUENCY |
|------|------|----------------------------------------------------------------------------------------|-----------------------|
| 15   | III  | Proceedings of the Society for Experimental<br>Biology and Medicine                    | 1                     |
| 15   |      | Radiologic Clinics of North America                                                    | 1                     |
| 15   |      | Research Publications of the Association for<br>Research in Nervous and Mental Disease | 1                     |
| 15   |      | Rocky Mountain Medical Journal                                                         | 1                     |
| 15   |      | Seminars in Drug Treatment                                                             | 1                     |
| 15   |      | Seminars in Roentgenology                                                              | 1                     |
| 15   |      | South African Nursing Journal                                                          | 1                     |
| 15   |      | Surgery Annual                                                                         | 1                     |
| 15   |      | Surgical Clinics of North America                                                      | 1                     |
| 15   |      | Tissue Antigens                                                                        | 1                     |
| 15   |      | Vascular Surgery                                                                       | 1                     |
| 15   |      | Vitamins and Hormones                                                                  | 1                     |
| 15   |      | Weather Vane                                                                           | 1                     |

ZONE III contains 106 journal titles (77.4%) that produced 158 documents (29.8%)

# APPENDIX G

## MOST FREQUENTLY USED DOCLINE CITATIONS

| NUMBER OF<br>USES | TITLE, JOURNAL AND YEAR                                                                                                        | OVERALL JOURNAL<br>RANK |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 12                | "The Syndrome of inappropriate secretion of anti-diuretic hormones (SIADH)." <u>DM; Disease-A-Month</u> , 1973.                | 23                      |
| 12                | "The Rational management of ascites." <u>Progress in Liver Diseases</u> , 1972.                                                | 40                      |
| 11                | "Disseminated intravascular coagulation." <u>Medical Clinics of North America</u> , 1972.                                      | 7                       |
| 11                | "The Impact of chemotherapy on the care of patients with tuberculosis." <u>American Review of Respiratory Diseases</u> , 1974. | 21                      |
| 11                | "Lactic acidosis." <u>American Journal of Medicine</u> , 1970.                                                                 | 9                       |
| 10                | "Blood pressure elevation in pregnancy." <u>Progress in Cardiovascular Diseases</u> , 1974.                                    | 29                      |
| 10                | "Hepatic encephalopathy: current status." <u>Gastroenterology</u> , 1974.                                                      | 22                      |
| 9                 | "Cerebrovascular disease." <u>DM; Disease-A-Month</u> , 1973.                                                                  | 23                      |
| 9                 | "Fever of undetermined origin." <u>New England Journal of Medicine</u> , 1973.                                                 | 1                       |
| 9                 | "Guidelines for heparin therapy." <u>Annals of Internal Medicine</u> , 1974.                                                   | 4                       |
| 9                 | "Infective endocarditis -- 1973." <u>Progress in Cardiovascular Diseases</u> , 1973.                                           | 29                      |
| 8                 | "Pathophysiology of the monoclonal gammopathies.1." <u>Postgraduate Medicine</u> , 1973.                                       | 11                      |
| 8                 | "A rational approach to the hepatorenal syndrome." <u>Gastroenterology</u> , 1973.                                             | 22                      |

Most Frequently Used DOCLINE Citations

| NUMBER OF<br>USES | TITLE, JOURNAL AND YEAR                                                                                                               | OVERALL JOURNAL<br>RANK |
|-------------------|---------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 8                 | "Hyperparathyroidism: current perspectives." <u>Advances in Internal Medicine</u> , 1974.                                             | 28                      |
| 8                 | "Changing methods in the treatment of severe pancreatitis." <u>American Journal of Surgery</u> , 1974.                                | 11                      |
| 8                 | "Measurement of pulmonary wedge pressure by the flow-directed Swan-Ganz catheter." <u>Cardiovascular Research</u> , 1972.             | 42                      |
| 8                 | "Catheterization of the heart in man use of a flow-directed, balloon-tipped catheter." <u>New England Journal of Medicine</u> , 1970. | 1                       |
| 8                 | "Acute and chronic pancreatitis." <u>Surgical Clinics of North America</u> , 1975.                                                    | 20                      |
| 7                 | "Pathophysiology of the monoclonal gammopathies.2." <u>Postgraduate Medicine</u> , 1973.                                              | 11                      |
| 7                 | "Hematologic aspects of alcoholism." <u>Seminars in Hematology</u> , 1973.                                                            | 36                      |
| 7                 | "The Nephrotic syndrome." <u>Practitioner</u> , 1974.                                                                                 | 30                      |
| 7                 | "The Porphyrrias: a review." <u>Journal of Clinical Pathology</u> , 1972.                                                             | 40                      |
| 7                 | "Diabetic ketoacidosis." <u>New England Journal of Medicine</u> , 1974.                                                               | 1                       |
| 7                 | "Intracranial hypertension." <u>Postgraduate Medicine</u> , 1974.                                                                     | 11                      |
| 7                 | "Application of ventilators in acute respiratory failure." <u>Medical Clinics of North America</u> , 1973.                            | 7                       |

# Most Frequently Used DOCLINE Citations

| NUMBER OF<br>USES | TITLE, JOURNAL AND YEAR                                                                                                                   | OVERALL JOURNAL<br>RANK |
|-------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| 7                 | "Continuous intravenous infusion of small doses of insulin in treatment of diabetic ketoacidosis." <u>British Medical Journal</u> , 1974. | 5                       |
| 7                 | "Anticoagulants in cerebrovascular disease: a critical review of studies." <u>Archives of Internal Medicine</u> , 1975.                   | 12                      |
| 7                 | "Palliation in malignant pleural effusion." <u>American Surgeon</u> , 1975.                                                               | 24                      |

APPENDIX H

STATISTICAL PACKAGE FOR SOCIAL SCIENCES (SPSS)

CODING FORMAT

(includes Summary sheet on Form 1)



# SPSS Coding Format

2 March 1976

CARD 1

PUBLIC.CMLUSER.DATA

Column  
Number

Category and Code

|      |                                                                        |                   |
|------|------------------------------------------------------------------------|-------------------|
| 1    | Year of request (e.g. 1975 would be coded '5')                         |                   |
| 2-5  | Request number (code the four digits at the top of Form #1, e.g. 1001) |                   |
| 6    | Blank                                                                  |                   |
| 7    | Type of request (supplemental)                                         |                   |
|      | 0 = not used                                                           | (If Column #22 is |
|      | 1 = user select category #1                                            | a 3--User Select, |
|      | 2 = user select category #2                                            | this must not be  |
|      |                                                                        | a zero.)          |
| 8    | Blank                                                                  |                   |
| 9-10 | <u>User Category</u>                                                   |                   |
|      | Medical Doctor, 11-15                                                  |                   |
|      | Code:                                                                  |                   |
|      | 11 = Resident, Year 1                                                  |                   |
|      | 12 = Resident, Year 2                                                  |                   |
|      | 13 = Resident, Year 3                                                  |                   |
|      | 14 = Docent                                                            |                   |
|      | 15 = Other                                                             |                   |
|      | Medical Students, 22-26                                                |                   |
|      | Code:                                                                  |                   |
|      | 22 = Year 1 & 2                                                        |                   |
|      | 23 = Year 3                                                            |                   |
|      | 24 = Year 4                                                            |                   |
|      | 25 = Year 5                                                            |                   |
|      | 26 = Year 6                                                            |                   |
|      | Unit Members, 31-36                                                    |                   |
|      | Code:                                                                  |                   |
|      | 31 = Clinical Pharmacist                                               |                   |
|      | 32 = Nurse                                                             |                   |
|      | 33 = Dietician                                                         |                   |
|      | 34 = Other Staff                                                       |                   |
|      | 35 = Students, not medical                                             |                   |
|      | 36 = Others                                                            |                   |

## Unit Search, 41-42

Code:

41 = Docent  
42 = Other

## Others, 51-52

Code:

51 = Students  
52 = Others

- 11 Blank
- 12-14 Date of Transaction (code Julian Date--3 digits,  
e.g. February 5 = 036)
- 15 Blank
- 16-17 Clinical Medical Librarian  
Code: Initials, 2 only
- 18-20 Blanks
- 21 Evaluation Sent  
Code:  
1 = Sent  
2 = Not Sent  
3 = Sent, but not returned
- 22 Type of request  
Code:  
1 = Requested  
2 = Anticipated  
3 = User Select  
4 = Non-Patient Care
- 23 Suppl. Answer--Bibliography  
Code:  
1 = Bib. given (multiple bibs, code as 1)  
(Blank if none given)
- 24 Suppl. Answer--TXB  
Code:  
Exact number of TXBs given, e.g. 2 TXB  
is coded 2 (Blank if none given)
- 25 Blank
- 26 Suppl. Answer--AVM  
Code:  
Exact number of AVMs given, e.g. 2 AVM  
is coded 2 (Blank if none given)
- 27 Blank

- 28-29            Suppl. Answer--# of Articles Given  
Code:  
                Exact number of articles given, e.g.  
                13# of Articles Given (If blank, use exact  
                # of articles in the answer section.)
- 30              Blank
- (31-50)        UMKC MEDICAL Library USER EVALUATION
- 31              1. Is this statement made accurately?  
Code:  
                1 = Very accurately  
                2 = Quite accurately  
                3 = Somewhat accurately  
                4 = Not accurately  
  
                7 = No Response  
                8 = Don't Know  
                9 = Does Not Apply
- 32              Comment on Accuracy  
Code:  
                1 = Comment was made  
  
                7 = No Response  
                8 = Don't Know  
                9 = Does Not Apply
- 33              2. Is the attached information pertinent?  
Code:  
                1 = Yes  
                2 = No  
  
                7 = No Response  
                8 = Don't Know  
                9 = Does Not Apply
- 34              Note authors of NON-relevant documents.  
Code:  
                1 = Authors noted  
  
                7 = No Response  
                8 = Don't Know  
                9 = Does Not Apply
- 35              3. To what degree of completeness do/does the...?  
Code:  
                1 = Not complete  
                2 = Somewhat complete  
                3 = Quite complete  
                4 = Very complete  
  
                7 = No Response  
                8 = Don't Know  
                9 = Does Not Apply

36 Blank

(37-45) 4. What was the primary use of the information?  
Code:

37 Patient Care, 1 = Yes  
0 = No

38 Diagnosis, 2 = Yes  
0 = No

39 Etiology, 3 = Yes  
0 = No

40 Technic, 4 = Yes  
0 = No

41 Drug Therapy, 5 = Yes  
0 = No

42 Other Treatment, 6 = Yes  
0 = No

43 Education, 7 = Yes  
0 = No

44 Presentation, 8 = Yes  
0 = No

45 Other, 9 = Yes  
0 = No

46 Blank

47 Comment on evaluation or service  
Code:  
1 = Comment made  
0 = Blank

48-80 Blank

TRANSACTION # 1 2-5 7  
VR-TRANS# - TYPE OF REQ

CARD 1 PUBLIC.CMLUSER.DATA  
 PATIENT CARE INFORMATION SYSTEM

JULIAN DATE 12-14  
12-14

USER CATEGORIES 9-10

MD

Resident

11 Year 1

12 Year 2

13 Year 3

14 Docent

15 Other

MEDICAL STUDENT

16 Year 1 & 2

17 Year 3

18 Year 4

19 Year 5

20 Year 6

UNIT MEMBERS

31 Clinical Pharmacists

32 Nurse

33 Ther Dietician

34 Other staff

35 Students, not medical

36 Others

UNIT SEARCH

41 Docent

42 Other

OTHERS

51 Students

52 Others

16-17

INITIALS

22

TYPE OF REQUEST

1 Requested

2 Anticipated

3 User Select

4 Non-Patient

Care Search

21 EVALUATION

1 Sent

2 Not Sent

SUPPLEMENTARY ANSWER

1 Bibliography 23

24 CMC#TXB

26 MAC#AVM

29 of Articles Given 29

INFOSYSTATS FORM #1 REV 7/75

CLINICAL SCIENCES

Behavioral + Mental Disorders  
Cardiovascular Diseases  
Dermatologic Diseases  
Digestive Diseases  
Endocrine Diseases  
General Path. Signs + Symptoms  
Gynecologic + Obstet Diseases  
Hemic + Lymphatic Diseases  
Immunologic Diseases  
Infectious Diseases

Injuries + Poisoning+Occupational  
Musculoskeletal Diseases  
Neonatal Diseases + Abnormalities  
Neoplasms  
Neurologic Diseases  
Ocular Diseases  
Oral Diseases  
Otorhinolaryngologic Diseases  
Nutritional + Metabolic Diseases  
Respiratory Diseases  
Urinary + Male Genital Diseases

QUESTION CATEGORIES

BASIC SCIENCES

Anatomy + Morphology  
Biochemistry  
Genetics  
Microbiology  
Pharmacology  
Physiology  
Psychology, Behavior  
+ Testing  
Social Sciences and  
Demography

DIAGNOSIS

Laboratory  
Physical or Electrical  
Psychologic Evaluation + Testing  
Radiographic  
Surgical + Pathological  
Diagnosis, Differential

MISCELLANEOUS

Etiology Pregnancy  
Physiopathology  
Public Health; Prevent. Med., + Epidemiology  
Techniques + Equipment  
Special Topics

THERAPY

Biological Therapy  
Diet Therapy  
Drug Therapy  
Physical Therapy + Rehab  
Psychotherapy + Counseling  
Radiotherapy  
Surgery

| ANSWER | 31-47 USER EVALUATION                           | ILL | CDCF | JCODE | REUSE |
|--------|-------------------------------------------------|-----|------|-------|-------|
| 01     | BLANKS - 6, 8, 11, 15, 18-20, 25, 22, 30, 48-80 |     |      |       |       |
| 02     |                                                 |     |      |       |       |
| 03     |                                                 |     |      |       |       |
| 04     |                                                 |     |      |       |       |
| 05     |                                                 |     |      |       |       |
| 06     |                                                 |     |      |       |       |

CARDS 1-6PUBLIC.QUESTURL.DATAColumn  
NumberCategory and Code

- 1 Year of request (e.g. 1975 would be coded '5')
- 2-5 Request number (code the four digits at the top of Form #1, e.g. 1001)
- 6 Blank
- 7 Type of request (supplemental)  
0 = not used  
1 = user select category #1  
2 = user select category #2
- 8 Blank
- 9 Document Number (e.g. the number that appears in the ANSWER section for each article listed, 1-6)  
If there are more Question Categories than Document #s,  
Blank make cards with Blank Document #s.
- 10
- 11-12 Question Categories  
Code:  
List from lowest to highest number on successive cards  
If there are more Doc.#s than Q. Cat., make cards with  
Blank Q. Cat.

CLINICAL SCIENCES

11 Behavioral + Mental Disorders  
12 Cardiovascular Diseases  
13 Dermatologic Diseases  
14 Digestive Diseases  
15 Endocrine Diseases  
16 General Path, Signs + Symptoms  
17 Gynecologic + Obstet Diseases  
18 Hemat + Lymphatic Diseases  
19 Immunologic Diseases  
20 Infectious Diseases

21 Injuries + Poisoning—Occupational  
22 Musculoskeletal Diseases  
23 Neonatal Diseases + Abnormalities  
24 Neoplasms  
25 Neurologic Diseases  
26 Ocular Diseases  
27 Oral Diseases  
28 Otorhinolaryngologic Diseases  
29 Nutritional + Metabolic Diseases  
30 Respiratory Diseases  
31 Urinary + Male Genital Diseases

QUESTION CATEGORIESBASIC SCIENCES

41 Anatomy + Morphology  
42 Biochemistry  
43 Genetics  
44 Microbiology  
45 Pharmacology  
46 Physiology  
47 Psychology, Behavior  
+ Testing  
48 Social Sciences and  
Demography

DIAGNOSIS

50 Laboratory  
51 Physical or Electrical  
52 Psychologic Evaluation + Testing  
53 Radiographic  
54 Surgical + Pathological  
55 Diagnosis, Differential

MISCELLANEOUS

61 Etiology  
62 Physiopathology  
63 Public Health; Prevent. Med., + Epidemiology  
64 Techniques + Equipment  
65 Special Topics

THERAPY

71 Biological Therapy  
72 Diet Therapy  
73 Drug Therapy  
74 Physical Therapy + Rehab  
75 Psychotherapy + Counseling  
76 Radiotherapy  
77 Surgery



CARDS 1-6 (cont'd)

|       |                                                                                                                 |
|-------|-----------------------------------------------------------------------------------------------------------------|
| 13    | Blank                                                                                                           |
| 14-17 | Journal title number, Code: 4 digit number from supplemental list                                               |
| 18    | Dash (-)                                                                                                        |
| 19-21 | Volume number, Code: Exact number,<br>ex.: v1 = 001<br>v24 = 024 (DM = 000)<br>v256 = 256                       |
| 22    | Colon (:)                                                                                                       |
| 23-26 | Initial page number, Code: Exact number,<br>ex.: pg 7 = 0007<br>pg 14 = 0014<br>pg 349 = 0349<br>pg 1536 = 1536 |
| 27    | Comma (,)                                                                                                       |
| 28-29 | Year of publication, ex.: 74,75,etc.                                                                            |
| 30-80 | Blank                                                                                                           |